SELF-DIAGNOSTIC FUNCTION

SERVICE MANUAL

BE-3D CHASSIS

MODEL	C	COMMANDER	DEST	CHASSIS NO.	MODEL	COMMANDER	DEST	CHASSIS NO.
	32WS2B 32WS2D		French AEP	SCC-K01V-A SCC-K07W-A	KV-32WS2	J RM-862	UK	SCC-K04R-A







ITEM MODEL	Television System	Stereo System	Channel Coverage	Color System
French	B/G/H, D/K, L, I	GERMAN/NICAM Stereo	VHF: E2-E12, S01-S03, R1-RX11, F2-F10, B-Q UHF: E21-E69, - B21-B69, R21-R69, F21-F61 CABLE TV: S1-S20 HYPER: S21-S41	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
AEP	B/G/H, D/K	GERMAN Stereo	VHF: E02-E12, R01-R12, A-H2 UHF: E21-E69, - R21-R69 CABLE TV: S01-S05, S1-S20 HYPER: S21-S41	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)
UK	I	NICAM Stereo	UHF : B21-B69	PAL NTSC4.43, NTSC3.58 (VIDEO IN)

MODEL	32WS2B	32WS2D	32WS2U
Power Consumption	105 W	105 W	163 W

[PICTURE TUBE] Super Trinitron Wide

Approx. 82cm (32 inches) (Approx. 76 cm picture measured

diagonally)

110 degree deflection

Input/Output Terminals

[REAR]

→ 1 21-pin Euro connector (CENELEC standard).

- Inputs for Audio and Video signals.

Inputs for RGB.

- Outputs of TV Video and Audio signals.

⇒2/S2 21-pin Euro connector.

- inputs for Audio and Video signals.

- inputs for S Video.

- outputs for Audio and Video signals (selectable).

→ Phono Jack

Outputs for Audio Signals
Left/Right Speaker Terminals
Surround Speaker Terminals

[FRONT]

→3 Video input - phono jack
 →3 Audio inputs - phono jacks
 →53 S Video input 4 pin DIN

Sound output

Left/Right2x15W (Music Power)Centre2x5W (Music Power)Surround2x10W (Music Power)

Power requirements 220 - 240V

Dimensions Approx 906x552x566mm approx.

Weight Approx 60kg

Supplied accessories RM-862 Remote Commander (1) IEC designated R6 battery (2)

Other features Dolby Pro Logic, NICAM*, FASTEXT

*(KV-32WS2B/32WS2U only)

[RM-862]

Remote control system infrared control

Power requirements 3V dc

2 batteries IEC designation

R6 (size AA)

Dimensions Approx 210x56x24mm (w/h/d)
Weight Approx 110g (Not including battery)

Design and specifications are subject to change without notice.

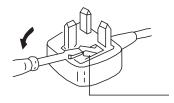
Model Name	KV-32WS2B	KV-32WS2D	KV-32WS2U
Item	KV-32W32B	KV-32W32D	KV-32W32U
Pal Comb	OFF	OFF	OFF
PIP	OFF	OFF	OFF
Woofer Box	OFF	OFF	OFF
Scart 1	ON	ON	ON
Scart 2	ON	ON	ON
Front in (3)	ON	ON	ON
Scart 4	OFF	OFF	OFF
Projector	OFF	OFF	OFF
AKB in 16:9 mode	ON	ON	ON
Norm B/G/H	ON	ON	OFF
Norm I	ON	OFF	ON
Norm D/K	ON	ON	OFF
Norm AUS	OFF	OFF	OFF
Norm L	ON	OFF	OFF
Norm SAT	OFF	OFF	OFF
Norm M	OFF	OFF	OFF
Teletext	ON	ON	ON
Nicam Stereo	ON	OFF	ON
Language Preset	French	German	English

WARNING (KV-32WS2U only)

The flexible mains lead is supplied connected to a **B.S. 1363** fused plug having a fuse of **5 AMP** capacity. Should the fuse need to be replaced, use a **5 AMP FUSE** approved by **ASTA** to **BS 1362**, ie one that carries the mark.

IF THE PLUG SUPPLIED WITH THIS APPLIANCE IS NOT SUITABLE FOR THE OUTLET SOCKETS IN YOUR HOME, IT SHOULD BE CUT OFF AND AN APPROPRIATE PLUG FITTED. THE PLUG SEVERED FROM THE MAINS LEAD MUST BE DESTROYED AS A PLUG WITH BARED WIRES IS DANGEROUS IF ENGAGED IN A LIVE OUTLET SOCKET

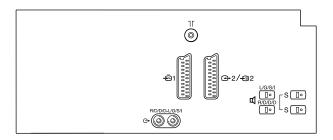
When an alternative type of plug is used it should be fitted with a **5 AMP FUSE**, otherwise the circuit should be protected by a **5 AMP FUSE** at the distribution board.

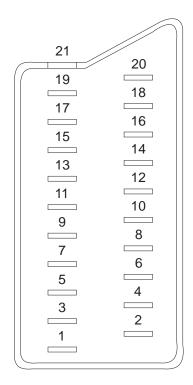


How to replace the fuse. Open the fuse compartment with a screwdriver blade and replace the fuse.

FUSE

21 pin connector ($\rightarrow \stackrel{\dots}{\bigcirc}$ 1, $\stackrel{\longrightarrow}{\bigcirc}$ 2 / $\stackrel{\longrightarrow}{\bigcirc}$ 3)





Pin No	1	2	4	Signal	Signal level
1	0	0	0	Audio output B (right)	Standard level : 0.5V rms Output impedence : Less than 1kohm*
2	0	0	0	Audio output B (right)	Standard level : 0.5V rms Output impedence : More than 10kohm*
3	3 0 0 0		0	Audio output A (left)	Standard level : 0.5V rms Output impedence : Less than 1kohm*
4	0	0	0	Ground (audio)	
5	0	0	0	Ground (blue)	
6	0	0	0	Audio input A (left)	Standard level : 0.5V rms Output impedence : More than 10kohm*
7	0	•	•	Blue input	0.7 +/- 3dB, 75 ohms positive
8	0	0	0	Function select (AV control)	High state (9.5-12V) : Part mode Low state (0-2V) : TV mode Input impedence : More than 10K ohms Input capacitance : Less than 2nF
9	0	0	0	Ground (green)	
10	0	0	0	Open	
11	0	•	•	Green	Green signal : 0.7 +/- 3dB, 75 ohms, positive
12	0	0	0	Open	
13	0	0	0	Ground (red)	
14	0	0	0	Ground (blanking)	
45	0	-	-	Red input	0.7 +/- 3dB, 75 ohms, positive
15	-	0	0	(S signal Chroma input)	0.3 +/- 3dB, 75 ohms, positive
16	0	•	•	Blanking input (Ys signal)	High state (1-3V) Low state (0-0.4V) Input impedence : 75 ohms
17	0	0	0	Ground (video output)	
18	0	0	0	Ground (video input)	
19	0	0	0	Video output	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
20	0	_	_	Video input	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
20	-	0	0	Video input Y (S signal)	1V +/- 3dB, 75ohms, positive sync 0.3V (-3+10dB)
21	0	0	0	Common ground (plug, shield)	

Connected

Not Connected (open) * at 20Hz - 20kHz



Pin No	Signal	Signal level
1	Ground	
2	Ground	
3	Y (S signal) input	1V+/- 3dB 75 ohm, positive Sync 0.3V -3/+10dB
4	C (S signal) input	0.3V+/- 3dB 75 ohm, positive Sync

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		CAUTION				ATTENTION	

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR THE CARBON PAINTED ON THE CRT, AFTER REMOVAL OF THE **ANODE CAP**

WARNING!!

AN ISOLATING TRANSFORMER SHOULD BE USED DURING ANY SERVICE WORK TO AVOID POSSIBLE SHOCK HAZARD DUE TO LIVE CHASSIS. THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE POWER LINE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARKED ▲ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL FOR SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

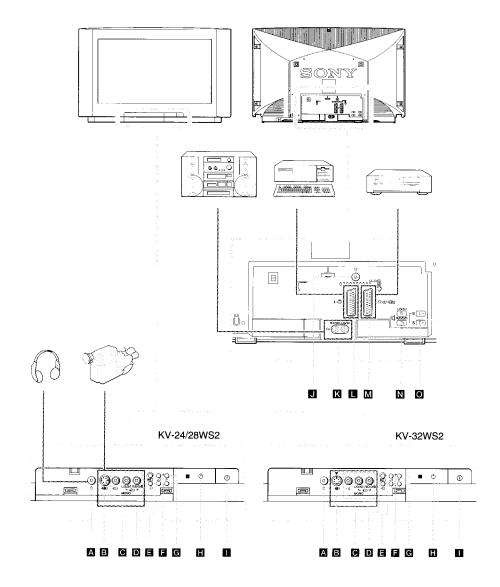
APRES AVOIR DECONNECTE LE CAP DE'LANODE. COURT-CIRCUITER L'ANODE DU TUBE CATHODIQUE ET CELUI DE L'ANODE DU CAP AU CHASSIS METALLIQUE DE L'APPAREIL, OU AU COUCHE DE CARBONE PEINTE SUR LE TUBE CATHODIQUE OU AU BLINDAGE DU TUBE CATHODIQUE.

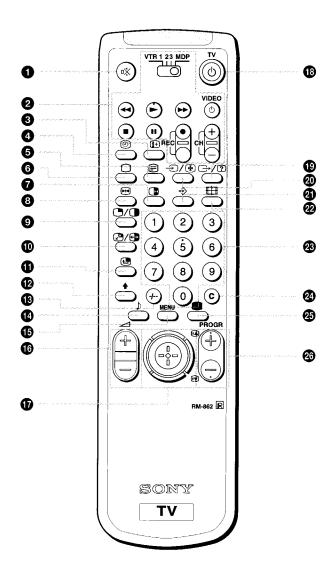
ATTENTION !!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÁSSIS SOUS TENTION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÈ LORS DE TOUT DÈPANNAGE. LE CHÁSSIS DE CE RÈCEPTEUR EST DIRECTMENT RACCORDÈ Á L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS Á LA SÈCURITÈ!!

LES COMPOSANTS IDENTIFIÈS PAR UNE TRAME ET PAR UNE MARQUE ⚠ SUR LES SCHÈMAS DE PRINCIPE, LES VUES EXPLOSÈES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÈCURITÈ DU FONCTIONNEMENT, NE LES REMPLACER QUE PAR DES COMPSANTS SONY DONT LE NUMÈRO DE PIÈCE EST INDIQUÈ DANS LE PRÈSENT MANUEL OU DANS DES SUPPLÈMENTS PUBLIÈS PAR SONY.





6

Overview

This section briefly describes the controls and the buttons on the TV set and on the Remote Commander. Please open the flap at the front of the Instruction manual for illustrations of the TV set and the Remote Commander. Letters in boxes refer to the buttons on the TV set, numbers in circles to the buttons on the Remote Commander. For more information, refer to the page numbers given next to each description.

TV-Buttons and Terminals

Reference and Symbol		Name	Refer to Page
Fror	nt of the set		
Α	n	Headphones jack	33
В	3 3	S video input jack	33
С	⊕ 3, → 3	Audio/video input jacks	33
D	>>	Automatic Preset button	12
Ø	Ð	Input mode button	14
F	⊿ +/-	Volume control	13
G	P +/-	Programme button	13
Ŧ	Ф	Standby mode indicator	13
0	①	Main power switch	13
Rea	r of the set		
IJ	7	Aerial socket	11
K	\ominus	Audio phono jacks	33
L	 Ö 1	21 pin Euro connector	33
M	→ 2/→ 2	21 pin Euro connector	33
N	L/G/S/I, R/D/D/D	Left/Right speaker terminals	10
0	S	Surround speaker terminals	10

Remote Commander Operation

Ref	erence and Symbol	Name	Refer to Page
0	*	Muting on/off button	13
0		VCR operation	36
	VTR123MDP	Video equipment selector	36
	↔ ► ₩ 8 11 0	Video equipment operation buttons	36
	VIDEO Ů, CH +/-		
•	(i •)	On-screen display button	13
4	0	Time display button	13
6		Teletext button	14
6	0	TV power on/TV mode button	13, 14
06	99000	No function on this set	-
1	-/	Double digit entering button	13
•	>	Sound mode button	20
ⅎ	MENU	Menu on/off button	15
•	∠ +/-	Volume control button	13
•		Joystick for menu selection. Press to confirm selection (OK function)	15
₿	TVŮ	TV standby button	13
®	⊕ ⑦	No function on this set Teletext: reveal button	31
20	- 9 ••	Input mode button Teletext: Freezing the subpage	14 31
4	♦	Teletext: Favourite pages button	32
@	*************************************	Button to change screen format	14
3	1, 2, 9, 0	Number buttons	13
4	c	Direct channel button	14
4	•	Picture mode button	20
29	PROGR +/-	Programme buttons Teletext: Page up/page down buttons	13 14

Step 1

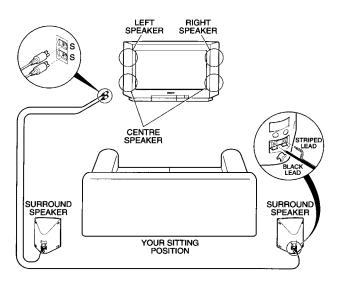
Connecting the Speakers

Do not switch on the TV before you connect the speakers.

Dolby (*) Pro Logic Surround normally requires 5 speakers:

Centre speaker (incorporated in the TV set)

- for anchoring the stable sound image, like dialogue, to the TV screen **Left and Right front speakers** (incorporated in the TV set)
- for the normal two channel stereo or bilingual broadcasts Surround speakers
- for the special effects created by the surround channel



Notes:

- Connect the speakers using the leads provided. The striped lead (+) is for the red terminal of the speaker and the black lead (-) is for the black terminal.
- If you use your own speakers, make sure they are at least 8Ω impedance and are magnetically shielded. Otherwise picture distortion may occur.

(*) Manufactured under license from Dolby Laboratories Licensing Corporation. DOLBY, the double-D symbol and "PRO LOGIC" are trademarks of Dolby Laboratories Licensing Corporation.

Step 2

Connecting the Aerial

(If you connect a VCR, skip to step 3)

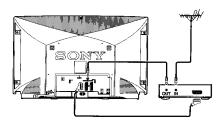
Insert the aerial plug tightly into the aerial socket \(\sqrt{ \bar{\textsf{J}}} \). Use a good-quality aerial cable (not supplied), corresponding to the relevant regulations.

Step 3

Connecting a VCR

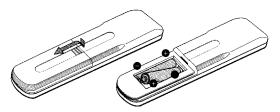
We recommend that you tune in the VCR signal to programme number "0". For details, see "Presetting Channels Manually" on page 17.

See "Connecting Optional Equipment" on page 33 for more information.



Step 4

Inserting the Batteries Into the **Remote Commander**



Respect your environment! Dispose of used batteries in an environmentally friendly way.

Step 5

Presetting Channels Automatically

With this function, the TV can automatically search and store up to 100 different channel numbers.

If you prefer manual presetting, refer to "Presetting Channels Manually" on page 17.

1 Plug into mains.
Press the power switch ① ■ on the TV set.

2 Press and hold the button **D** on the TV set until the automatic menu is displayed and the search starts.

After all available channels are stored, the normal TV picture is shown.

Note: Channels are automatically stored as follows:

Programme 1 BBC1 Programme 2 BBC2

Programme 2 BBC.
Programme 3 ITV

Programme 4 CH4 or S4C

Programme 5 CH5 (if available in your area)

TV Operation

TV Operation

This section explains functions used whilst watching TV. Most operations are carried out using the remote commander (numbers in circles). All basic functions are also available on the TV set (letters in boxes). Open the flap at the front of the Instruction Manual to see the illustrations of the Remote Commander and the TV set.

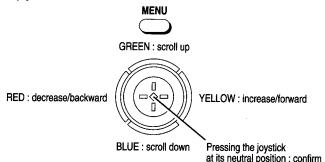
То	Press
Switch on	① II on TV
Switch off temporarily	() ® TV is now in standby mode and () H indicator on TV lights up.
Switch on from standby mode	☐ 6 , PROGR +/- 2 G or any number button 2
Switch off completely	① II on TV To save energy, switch off your TV completely when TV is not in use.
Select programmes	PROGR +/-
Display on screen indications	• • • • • • • • • • • • • • • • • • •
Adjust the volume	
Mute the sound	
Display the time (only available when teletext is broadcast)	② 4. Press again to make the display disappear.

TV Operation (continued) To **Press** Tune in a channel C 24. The indication "C" appears. temporarily Enter the double digit number. e.g. For 4, press 0 then 4. View video input picture → 20 E repeatedly until the desired video (see page 34 for detailed input appears. Press 6 to restore the TV information) picture. Operate Screen Mode **⊞ 2**2 (see page 19 for 4:3 —> Smart —> Zoom —> Wide detailed information) When using zoom mode, select 'scroll' to see the cut-off part of the screen. View teletext (see page 31 for detailed information) Switch on **5** three number buttons 3 or 🔁 3 (for next Select a page page) or 🗊 26 (for previous page). Use fastext Push joystick **1** to select a colour. Switch off

Adjusting and Setting the TV Using the Menu

You can adjust and set various functions on the TV using the following remote commander buttons:

- 1 Press MENU (5) to switch menu on/off.
- **2** Use the joystick **10** as follows.



Choosing the Menu Language

This function enables you to change the language of the menu screens.

- Press power switch ① on the TV. If the standby indicator on the TV is lit, press of or a number button on the Remote Commander.
- **2** Press the MENU button **6** on the remote commander.



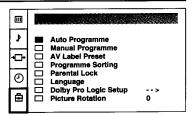
- Push to blue or green to select the language you want then push to yellow.
- 4 Press the MENU button **6** to restore the normal TV picture.

Presetting Channels Automatically

You may have already preset the channels automatically by using the method shown on page 12. You can also preset channels automatically by using the remote commander as follows:

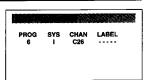
Press the MENU button 13.

2 Push joystick **1** to blue or green to select the symbol 🖨 on the menu screen then push to yellow.



3 Push to blue or green to select 'Auto Programme'.

Push to vellow and hold until the automatic menu is displayed and the search starts. After all available channels have been preset, the normal TV picture is shown.



Note: Channels are automatically stored as follows:

Programme 1 BBC1 BBC2 Programme 2 ITV Programme 3

Programme 4 CH4 or S4C

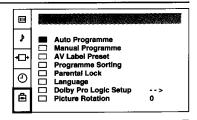
CH5 (if available in your area) Programme 5

Presetting Channels Manually

This function enables you to preset channels one by one to different programme numbers. This is also convenient for allocating programme numbers to various video input sources.

Press the MENU button 6

Push joystick 10 to blue or green to select the symbol 🖹 on the menu screen then push to yellow.



Push to blue or green to select 'Manual Programme' then push to yellow.

			اعتمادندن	
PROG	SYS	CHAN	LABEL	AFT
□ 0	- 1	C29		ON
□ 1	1	C31		ON
□ 2	- 1	C32		ON
□ 3	- 1	C36		ON
4	- 1	C37		ON
□ 5	i	C40		ON
□ 6	i	C41		ON
	i	C44		ON
	i	C49		ON
	í	C52		ON

Push to blue or green to select on which programme number you want to preset a channel then push to yellow.

Push to blue or green to select the TV broadcast system 'I' or a video input source (AV1, AV2,...) then push to yellow twice.

Select the first number digit of 'CHAN' (channel) then the second number digit of 'CHAN' with the number buttons ② on the remote commander

Push joystick **10** to blue or green to search for the next available channel.

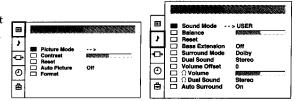
If you want to store the channel, go to step 8. If not, select a new channel using the number buttons @ on the remote commander or push to blue or green to resume the search.

- Press the joystick **1**.
- Repeat steps 4 to 8 to preset other channels.
- 10 Press the MENU button **6** to restore the normal TV picture.

Adjusting the Picture and Sound

Although the picture and sound are adjusted at the factory, you can adjust them to suit your own taste.

- 1 Press the MENU button **15**.
- 2 Push joystick to blue or green to select III for picture control or ♪ for sound control then push to yellow.



- ${f 3}$ Push to blue or green to select the desired item then push to yellow.
- 4 Push to red or yellow to alter the item then press the joystick ①. For the effect of each control, see the following tables.
- **5** Repeat steps 3 and 4 to adjust the other items.
- **6** Press the MENU button **1** to restore the normal TV picture.

Adjusting the Picture and Sound (continued)

PICTURE CONTROL	Effect
Picture Mode	 User —> Game —> Movie —> Sports —> Live In 'User' mode, you can preset Brightness, Colour, Sharpness and Hue (NTSC signals only) as follows: 1 Push joystick to blue or green to select the desired item then push to yellow. 2 Push to red or yellow to adjust then press the joystick to.
_	3 Push to red to return to the PICTURE CONTROL menu.
Contrast	• Darker —— I —— Brighter
Reset	Resets picture to the factory preset levels.
Auto Picture	 All the picture levels automatically change according to the surrounding lighting level. (Auto Picture Control)
Format	•There are three options.
	Format (4:3 —> Smart —> Zoom —> Wide), Scroll or Auto 16:9.
	To preset these, follow the procedure below.
	1 Push joystick 10 to blue or green to select the desired item then push to yellow.
	2 Push to red or yellow to change the setting then press the joystick 1 .
	3 Push to red to return to the PICTURE CONTROL menu.
	Format/Scroll
	Once 'Zoom' has been selected in 'Format' mode, you can
	then choose the 'Scroll' function to scroll the screen
	upwards or downwards to see the cut-off part (e.g. subtitles)
	or
	after selecting 'Zoom' and returning to the normal picture, push joystick 10 to blue or green to scroll then press joystick 10.
	Auto 16:9
	Automatically selects 16:9 picture mode when receiving a 16:9 broadcast (set to 'Off' if signal reception is weak).

Adjusting the Picture and Sound (continued)

SOUND CONTROL	Effect
Sound Mode	•User —> Rock —> Jazz —> Pop
	In 'User' mode, you can preset Treble and Bass as follows.
	1 Push joystick 1 to blue or green to select the item then push to yellow.
	2 Push to red or yellow to adjust then press the joystick 10 .
	3 Push to red to return to the 'SOUND CONTROL' menu.
Balance	•Left —— I —— Right
Reset	• Resets sound to the factory preset levels.
Bass Extension	Boosts bass by a fixed amount.
Surround Mode	 Choice among special sound effects.
	Pro Logic —> Pseudo Stereo —> Spatial —> Club
	> Theatre> Hall> Church> Stadium> Off
Dual Sound	• A: Left channel —> B: Right channel —> stereo —> mono
Volume Offset	• Presets the volume level for individual programmes12 —— 0 —— +12
∩ Volume	 Adjusts the headphone volume.
	• Selects the headphone channels.
• •	A: Left channel —> B: Right channel —> stereo —> mono
Auto Surround	 Automatically selects Pro Logic Surround sound when transmitted. (set to 'Off' if signal is weak).

Changing Modes Quickly

You can quickly change the Surround Mode or the Picture Mode without entering the 'SOUND CONTROL' or the 'PICTURE CONTROL' menu.

- 1 Press ② for the picture or → ① for the sound.
- 2 Push joystick **10** to blue or green to select the desired mode.
- 3 Press ② or ♪ ② again to restore the normal TV screen.

Manual Fine-Tuning

Normally, the automatic fine-tuning (AFT) function is operating. If the picture is distorted however, you can manually fine-tune the TV to obtain a better picture reception.

- Press the MENU button **6**.
- **2** Push joystick **1** to blue or green to select the symbol **2** on the menu screen then push to yellow.
- **3** Push to blue or green to select 'Manual Programme' then push to yellow.

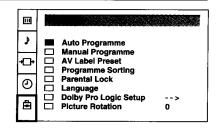
is one		entrepresent Seute Environ	general net inter-	
PROG	SYS	CHAN	LABEL	AFT
□ 0	- 1	C29		ON
□ 1	1	C31		ON
□ 2	- 1	C32		ON
□ 3	- 1	C36		ON
4	- 1	C37		ON
□ 5	- 1	C40		ON
□ 6	- 1	C41		ON
Ξi	i	C44		ON
□ 8	i	C49		ON
□ 9	i	C52		ON

- **4** Push to blue or green to select the programme number which corresponds to the channel you want to manually fine-tune.
- **5** Push to yellow repeatedly until the AFT position changes colour.
- **b** Push to blue or green to fine tune the channel frequency (-15 to +15).
- **7** Press the joystick **1**.
- **8** Repeat steps 4 to 7 to fine-tune other channels.
- **9** Press the MENU button **6** to restore the normal TV picture.

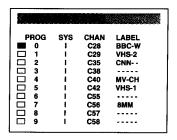
Sorting Programme Positions

This function enables you to exchange the programme positions.

- Press the MENU button **15**.
- f 2 Push joystick f 0 to blue or green to select the symbol f ar 2 on the menu screen then push to yellow.
- Push to blue or green to select 'Programme Sorting' then push to yellow.



4 Push to blue or green to select the channel you want to exchange then push to yellow.

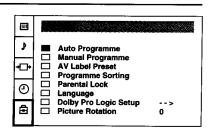


- ${f 5}$ Push to blue or green to select the programme position of the channel you want exchanged then push to yellow.
- **6** Repeat steps 4 to 5 if you wish to exchange other programme positions.
- **7** Press the MENU button **6** to restore the normal TV picture.

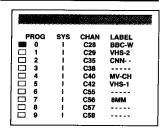
Using Parental Lock

This function enables you to prevent undesirable broadcasts from appearing on the screen. We suggest you use this function to prevent children from watching programmes which you consider unsuitable.

- 1 Press the MENU button **15**.
- ${\bf 2}$ Push joystick ${\bf 0}$ to blue or green to select the symbol $\stackrel{\triangle}{=}$ on the menu screen then push to yellow.
- Push to blue or green to select 'Parental Lock' then push to yellow.



Push to blue or green to select the channel you want to block then push to yellow. A symbol appears before the programme number to indicate that this channel is now blocked.



- Repeat step 4 if you wish to block other channels.
- Press the MENU button **(5)** to restore the normal TV picture.

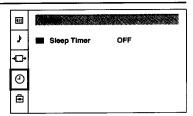
Note: To unblock, push to yellow after selecting the channel to unblock in the 'Parental Lock' menu.

Using the Sleep Timer

This function enables you to select a time period after which the TV automatically switches into standby mode.

Press the MENU button **6**.

Push joystick **10** to blue or green to select the symbol **2** on the menu screen then push to yellow.



3 Push to yellow.

4 Push to red or yellow to set time delay and press the joystick 10.

OFF 0:30 1:00 1:30 3:30 4:00

One minute before the TV switches into standby mode, a message is displayed on the screen.

5 Press the MENU button **6** to restore the normal TV picture.

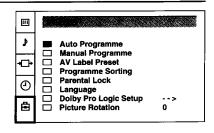
Skipping Programme Positions

This function enables you to skip unused programme positions when selecting them with the PROGR+/- buttons. However, you can still watch the channel of the skipped programme position by using the number buttons.

Press the MENU button **6**.

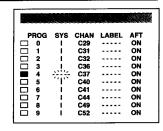
Push joystick **10** to blue or green to select the symbol **1** on the menu screen then push to yellow.

Push to blue or green to select 'Manual Programme' then push to yellow.



4 Push to blue or green to select the programme position you want to skip then push to yellow.

Push to blue or green until '---' appears in the 'SYS' position.



6 Press the joystick **10**.

Repeat steps 4 to 6 to skip other programme positions.

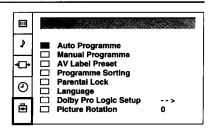
Press the MENU button **6** to restore the normal TV picture.

5

Captioning a Station Name

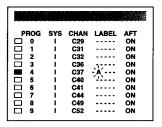
Names for channels are usually automatically taken from teletext if available. You can however name a channel or an input video source using up to five characters (letters or numbers).

- 1 Press the MENU button **6**.
- **2** Push joystick **10** to blue or green to select the symbol **2** on the menu screen then push to yellow.
- Push to blue or green to select 'Manual Programme' then push to yellow.



4 Push to blue or green to select the channel you wish to caption then push to yellow repeatedly until the first element of the 'LABEL' position is highlighted.

Push to blue or green to select a letter or number and push to yellow (select '-' for a blank). Select the other four characters in the same way.



6 After selecting all the characters, press the joystick **1**.

7 Repeat steps 4 to 6 to caption names for other channels.

8 Press the MENU button **10** to restore the normal TV screen.

Presetting Dolby Pro Logic

With Dolby Pro Logic Surround mode selected, you can experience three dimensional sound when watching Dolby Surround encoded programmes.

To experience programmes encoded in Dolby Surround sound, preset the surround mode to 'Pro Logic' as shown below.

1 Press Don the remote commander.

2 Push joystick • to blue or green to select 'Pro Logic'.

Off
Pro Logic
Pseudo Stereo
Spatial
Club
Theatre
Hall
Church
Stadlum

Press I to restore the normal TV screen.

Or alternatively you can select 'Pro Logic' in the surround mode of the 'SOUND CONTROL' menu (see page 20)

Teletext

Most TV channels broadcast information via teletext. The index page of the broadcaster (usually page 100) gives you information on how to use the service.

Make sure you use a TV channel with a strong signal, otherwise teletext errors may occur.

Switching Teletext on and off

- Select the channel which carries the teletext service you wish to view.
- Press (a) to display teletext.

 If no teletext signal is broadcast, the indication P100 is displayed on a black screen.
- Input three digits for the page number using the number buttons .
 The page counter searches for the page and after some seconds the page is displayed.
- **4** Press □ **6** to return to the normal TV picture.

Using Other Teletext Functions

То	Press		
Access the next or preceding teletext page	 of for the next page or for the preceding page		
Mix the mode	when in teletext mode. Now the teletext page is superimposed on the TV programme. Press again to return to the normal teletext display.		
Freeze a teletext subpage	Press once again to cancel.		
Reveal hidden information (e.g.: answers to a quiz)	② 19. Press once again to cancel.		

Favourite page system

You can store up to four of your favourite teletext pages per Teletext service. In this way you have quick access to the pages you frequently use.

Storing pages

- 1 Use the number buttons 23 to select the page you would like to store.
- 2 Press ♦ ③ twice.
 The colour prompts at the bottom of the screen flash.
- **3** Push the joystick **1** to the desired colour to store the selected page. The page is now stored on this colour.

Repeat steps 1 to 3 for the other 3 pages.

Displaying the Favourite Pages

- 1 Press � **②**.
- 2 Push the joystick **1** to the colour on which the desired page is stored.

Make sure you press 💠 🚳 , otherwise the normal Fastext facility operates.

Using Fastext

(only available, if the TV station broadcasts Fastext signals)

With Fastext you can access pages with one key stroke. When Fastext is broadcast, a colour-coded menu appears at the bottom of the screen. The colours of this menu correspond to the red, green, yellow and blue marks **①** on the Remote Commander.

Push the joystick Φ to the colour mark which corresponds to the colour-coded menu. The page is displayed after some seconds.

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Optional Equipment

Connecting Optional Equipment

There is a wide range of optional equipment you can connect to your TV. Refer to the illustrations on the front flap page of this manual.

Symbol	Acceptable input signals	Available output signals
- Ö1【	Normal audio/video and RGB	Audio/video from TV tuner
⊕ 2/ - - ® 2 M	Normal audio/video and S video	Audio/video from selected source
-€3, -€3 B -€3 3 C	Normal audio/video and S video	No output
⊖K	No inputs	Audio from selected source.

Connecting Headphones

Plug in the headphones to the socket \bigcap \blacksquare on the front of the TV.

About S video input

Video signals may be separated into Y (luminance) and C (chrominance) signals. Separating the two signals prevents interference and thus improves the picture quality.

Notes on connections:

- If the picture or sound is distorted, move the VCR away from the TV.
- When connecting a monaural VCR, connect only the white jack to both the TV and VCR
- Select 'TV' for output in the 'VIDEO CONNECTION' menu if you connect a decoder to

 2/

 2

 M (see page 34).

Selecting Input and Output Signals

This section explains how to select the output signal from → 2/→ 2 M and how to select and view the input. You can use direct access buttons ⊕ 10 to select the input or the menu system to select input and output. Selecting Input Signals With Direct Access Buttons

Press 🕙 🚳 🖪 repeatedly .

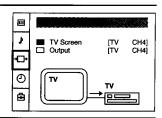
Press

6 to restore the normal TV picture.

Symbol on the screen	Input Signal
- €1	Audio/video through Euro AV connector
- Ö	RGB through Euro AV connector
- Đ2	Audio/video through Euro AV connector M
- ③ 2	S video through Euro AV connector M
⊕3	Audio/video through the phono jacks
- €9 3	S video through the 4 pin DIN B

Selecting With the Video Connection Menu

- 1 Press the MENU button **6**.
- Push joystick **10** to blue or green to select → for "Video Connection" then push to yellow.

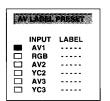


- Push to blue or green to select 'TV Screen' (input source for the TV Screen) or 'Output' (output source for ເ→ 2/-- 2 M) then push to yellow .
- **4** Push to red or yellow repeatedly to select the desired input or output source then press the joystick **6**.
- Press the MENU button **6** to restore the normal TV picture.

Note: If you select 'AUTO' for output, the output source automatically becomes the same as the desired input source.

33

- 1 Press the MENU button **6**.
- **2** Push joystick \odot to blue or green to select the symbol $\stackrel{\rightharpoonup}{=}$ on the screen then push to yellow.
- Push to blue or green to select 'AV Label Preset' then push to yellow.



- **4** Push to blue or green to select the desired input source then push to yellow.
- **5** Push to blue or green to select a letter or number then push to yellow (select '-' for a blank). Select the other four characters in the same way.
- After selecting all the characters, press the joystick **①**.
- Repeat steps 4 to 6 to label other input sources.
- Press the MENU button **6** to restore the normal TV screen.

Troubleshooting

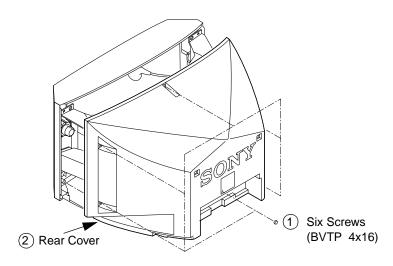
Here are some simple solutions to the problems which affect the picture and sound.

Problem	Solution
No picture (screen is dark), no sound	 Plug the TV in. Press ① ■ on the TV. (If ① indicator ■ is on, press ○ ⑤ or a programme number ② on the Remote Commander.) Check the aerial connection. Check if the selected video source is on. Turn the TV off for 3 or 4 seconds then turn it on again using ① ■.
Poor or no picture (screen is dark), but good sound	• Press MENU (5) to enter the 'PICTURE CONTROL' menu and adjust 'Contrast', 'Brightness' and 'Colour'.
Poor picture quality when watching an RGB video source.	•Press € @ ■ repeatedly to select ♣Ö.
Good picture but no sound	 Press ∠ + ♠ ♠. If [®] is displayed on the screen, press [®] ♠. Check the speaker lead connections.
No colour for colour programmes	• Press MENU 1 to enter the 'PICTURE CONTROL' menu, select 'Reset' then press the joystick 1 .
Remote Commander does not function	• Replace the batteries

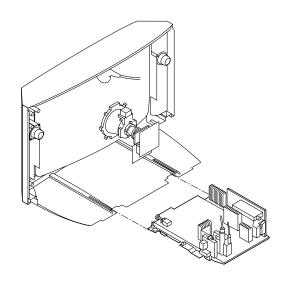
If you continue to have problems, have your TV serviced by qualified personnel. Never open the casing yourself.

SECTION 2 DISASSEMBLY

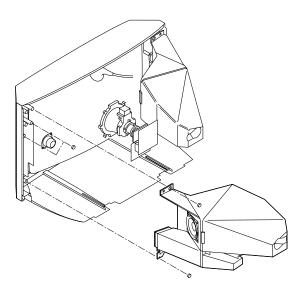
2-1. REAR COVER REMOVAL



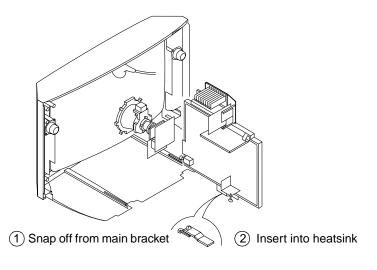
2-3. CHASSIS ASSY REMOVAL



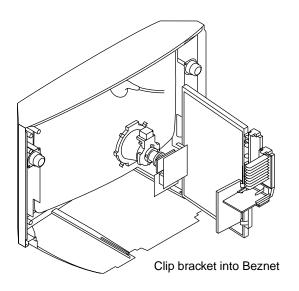
2-2. SPEAKER REMOVAL



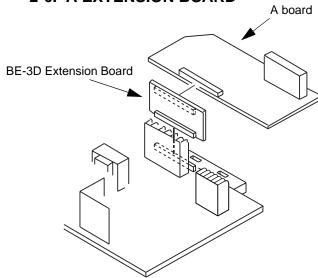
2-4-1. SERVICE POSITION (1)



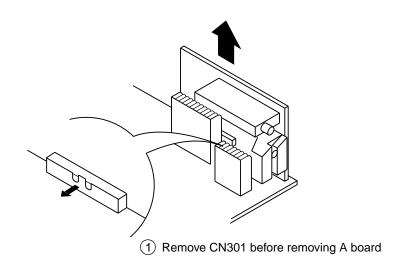
2-4-2. SERVICE POSITION (2)



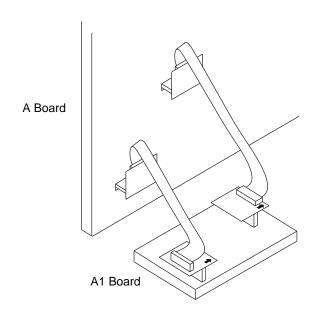
2-6. A EXTENSION BOARD



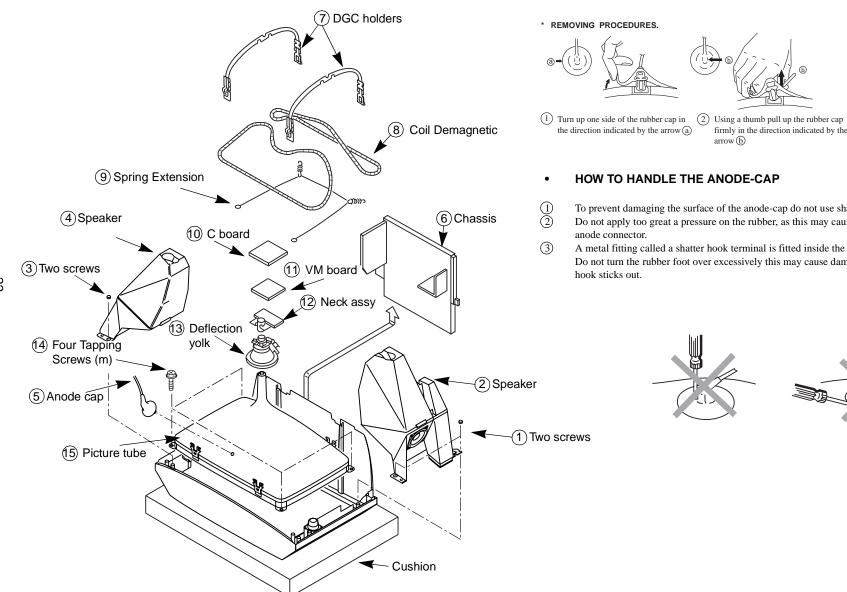
2-5. A BOARD REMOVAL



2-7. A1 EXTENSION BOARDS



2-8. PICTURE TUBE REMOVAL



REMOVAL OF ANODE-CAP

Note: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT, after removing the anode.



firmly in the direction indicated by the

3 When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow (c)

- To prevent damaging the surface of the anode-cap do not use sharp materials.
- Do not apply too great a pressure on the rubber, as this may cause damage to the
- A metal fitting called a shatter hook terminal is fitted inside the rubber cap. Do not turn the rubber foot over excessively this may cause damage if the shatter

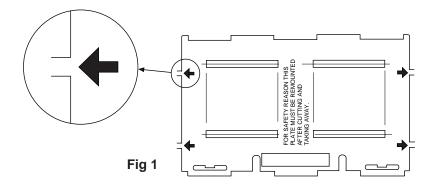


REMOVAL AND REPLACEMENT OF THE MAIN-BRACKET **BOTTOM PLATES.**

REMOVING THE PLATES

In the event of servicing being required to the solder side of the D Board printed circuit, the bottom plates fitted to the main chassis bracket require to be removed. This is performed by cutting the gates with a sharp wire cutter at the locations shown and indicated by arrows.

Note: There are 5 plates fitted to the main bracket and secured by 4 or 6 gates. Only remove the necessary plate to gain access to the circuit board.





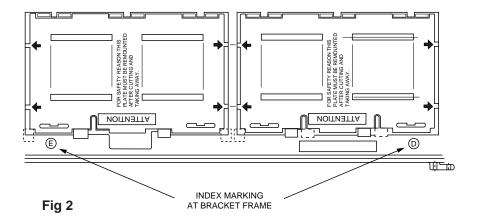
For safety reasons, on no account should the plates be removed and not refitted after servicing.

(2) REFITTING THE PLATES

Because the plates differ in size it is important that the correct plates are refitted in their original location.

The plates are identified by markings A-B-C-D-E on their top side.

- Identify the plate by locating its marking.
- Turn the plate over noting where the marking is located.
- Locate the corresponding marking indicated on the main chassis bracket. See Fig 2.
- Refit the plate as indicated in Fig 3 with the markings located next to each other.





INSERT FROM THE BOTTOM SIDE Fig 3 In the event of the plates requiring to be removed at a later stage, this can be achieved by inserting a screwdriver in the snap-recess indicated as in Fig 4 and lifting out.

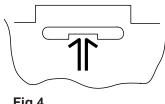


Fig 4

SECTION 3 SET-UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there are specific instructions to the contrary, carry out these adjustments with the rated power supply.
- Unless there are specific instructions to the contrary, set the controls and switches to the following settings:

[or remote control normal]
ć

Brightness 50%

Carry out the following adjustments in this order:

- 3-1. Beam Landing
- 3-2. Convergence
- 3-3. White balance
- 3-4. Focus

Note: Test equipment required

- 1. Color bar/pattern generator.
- 2. Degausser.
- 3. Oscilloscope.
- 4. Digital multimeter.
- 5. DC Power supply.

Preparation:

- 1. In order to reduce the influence of geomagnetism on the set's picture tube, face it in an easterly or westerly direction.
- Switch on the set's power and degauss with the degausser.

3-1. BEAM LANDING

- Input an all white signal from the pattern generator.
 Set the Contrast and Brightness to normal.
- 2. Set the pattern generator raster signal to Red.
- 3. Move the deflection yolk forward and adjust with the purity control so that the Red is at the centre and the Blue and Green take up equally sized areas on each side of the screen. [See Fig.3-1 3-3].
- 4. Move the deflection yolk forward and adjust so that the entire screen becomes Red. [See Fig.3-1]
- 5. Switch the raster signal to Blue, then to Green and verify the condition
- When the position of the deflection yolk has been determined, fasten the deflection yolk with the screws.
- 7. If the beam does not land correctly in all the corners, use a magnet to correct it. [See Fig.3-4]

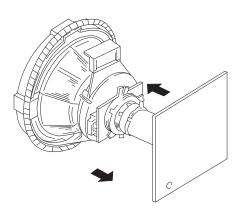


Fig. 3-1



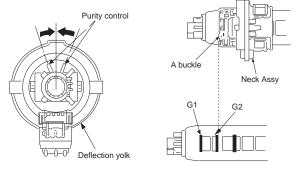
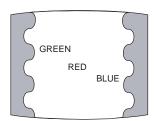


Fig. 3-3



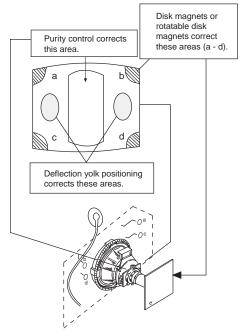


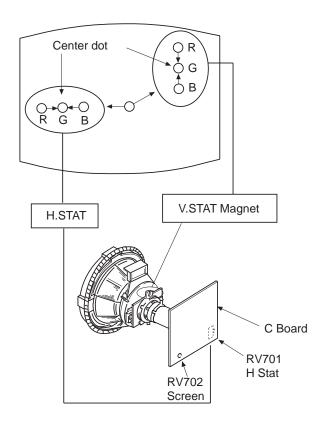
Fig. 3-4

3-2. CONVERGENCE

Preparation:

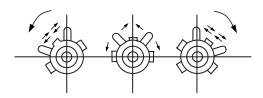
- Before starting this adjustment, adjust the focus, horizontal size and vertical size.
- Minimize the Brightness setting.
- Input a dot pattern from the pattern generator.

(1) Horizontal and vertical static convergence

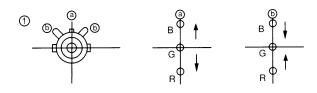


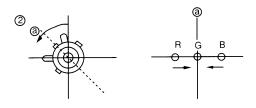
- 1. [Moving horizontally], adjust the H.STAT control so that the Red, Green and Blue points are on top of each other at the centre of the screen.
- 2. [Moving vertically], adjust the V.STAT magnet so that the Red, Green and Blue points are on top of each other at the centre of the screen.
- 3. If the H.STAT variable resistor is unable to bring the Red, Green and Blue points together at the centre of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V.STAT magnet in the manner indicated below. [In this case, the H.STAT variable resistor and the V.STAT magnet influence each other].

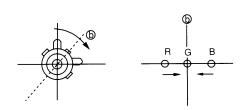
• Tilt the V.STAT magnet and adjust the static convergence by opening or closing the V.STAT magnet.

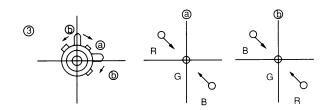


4. If the V.STAT magnet is moved in the direction of the a and b arrows, the Red, Green and Blue points move as indicated below.

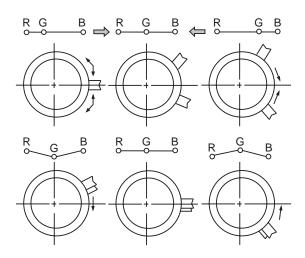








• Operation of the BMC (Hexapole) magnet.



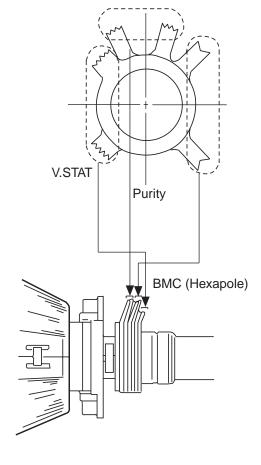
 The respective dot position resulting from moving each magnet interact, so be sure to perform adjustment whilst tracking.

Use the H.STAT VR to adjust the Red, Green and Blue dots so that they coincide at the centre of the screen (by moving the dots in the horizontal direction).

(2) Dynamic convergence adjustment.

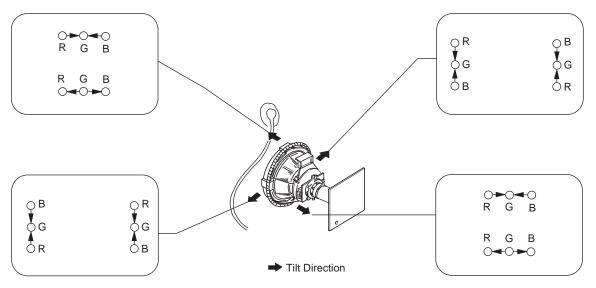
Preparation:

- Before starting this adjustment, adjust the horizontal and vertical static convergence.
- 1. Remove the deflection yolk spacer.



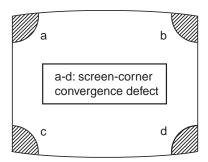
- Tilt the deflection yolk as indicated in the figure below and optimize the convergence.
- 3. Re-install the deflection yolk spacer.

Note : This adjustment will affect the geometry of the display, therefore adjust to obtain the optimum setting.

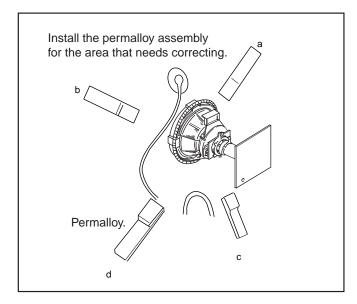


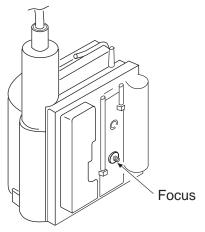
(3) Screen corner convergence.

 If you are unable to adjust the corner convergence properly, correct them with the use of permalloy assemblies.









3-3. WHITE BALANCE

G2 Setting

- 1. Switch the TV set into AV mode [apply a cross-hatch signal].
- 2. Enter into the 'Service mode' and select 'Picture Control'.
- 3. Enter 'Picture Control' and select 'Personal' press OK.
- 4. Return to 'Picture Control' menu and select 'Reset'.
- 5. Measure the voltages on the 3 cathodes of the CRT, Kr,Kg and Kb using an oscilloscope with a 100:1 probe.
- 6. Connect the oscilloscope to the CRT cathode which recorded the highest voltage and adjust [RV702 SCREEN] to obtain a reading of 170V black to white.

White balance adjustment

- 1. Input an all white signal from the pattern generator.
- 2. Enter into the Service Mode.
- 3. Enter into the 'Picture Adjustment' service menu.
- 4. Select 'Sub contrast' and adjust to 7.
- Select the 'Green drive' and adjust so that the white balance becomes optimum.
- 6. Select the 'Blue drive' and adjust so that the white balance becomes optimum.
- 7. Press the 'TV' button on the remote commander to return to TV operation.

PICTURE ADJUS	PICTURE ADJUSTMENT	
AFC mode	1	
REF position	2	
SCP BGR	1	
SCP BGF	1	
Trap fo	0	
Sub contrast	Adj	
Sub colour	Adj	
Sub brightness	Adj	
Green drive	Adj	
Blue drive	Adj	
Green cutoff	Adj	
Blue cutoff	Adj	
Gamma	0	
Pre / overshoot	0	
Y delay	3	

3-4. FOCUS

- 1. Receive a television broadcast signal.
- 2. Normalise the picture setting.
- Adjust the focus control on the flyback transformer for the best focus at the centre of the screen.
 Bring only the centre area of the screen into focus, the magenta

ring appears on the screen. In this case, adjust the focus to optimize the screen uniformly.

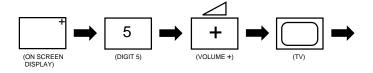
SECTION 4 CIRCUIT ADJUSTMENTS

4-1. ELECTRICAL ADJUSTMENTS

Service adjustments to this model can be performed using the supplied Remote Commander RM-862.

HOW TO ENTER INTO SERVICE MODE

- Turn on the main power switch and enter into the stand-by mode
- 2. Press the following sequence of buttons on the Remote Commander.



- 'TT--' will appear in the upper right corner of the screen.
 - Other status information will also be displayed.
- 3. Press 'MENU' on the remote commander to obtain the following menu on the screen.

TEST MENU	
> Picture Adjustment	
Geometry	
Wide	
IC status	
MSP	
Current TV status	

- Move to the corresponding adjustment using the button on the remote commander.
- 5. Press the + button to enter the selected adjustment.
- 6. Turn off the power to quit the service mode when adjustments have been completed.

PICTURE ADJUST	PICTURE ADJUSTMENT	
AFC mode	1	
REF position	3	
SCP BGR	1	
SCP BGF	1	
Trap fo	7	
Sub contrast	Adj	
Sub colour	Adj	
Sub brightness	Adj	
Green drive	Adj	
Blue drive	Adj	
Green cutoff	Adj	
Blue cutoff	Adj	
Gamma	0	
Pre / overshoot	0	
Y delay	5	
D Pic	ON/OFF	
D Colour	ON/OFF	
DC Transfer	ON/OFF	

GEOMETRY ADJU	STMENT - 4:3
\/ a:	۸ ــا:
V size	Adj
V position	Adj
S Correction	Adj
V Linearity	Adj
H size	Adj
H position	Adj
Pin Amp	Adj
Pin Phase	Adj
AFC Bow	Adj
AFC Angle	Adj
EHT V	1
EHT H	0
Lo Corn Pin	Adj
Up Corn Pin	Adj

	Wide Smart Zoom 4:3			
	vvide	Siliait	200111	4.3
V Aspect	0	14	47	0
V Scroll	31	31	30	31
Upper V Lin	0	3	0	0
Lower V Lin	0	3	0	0
Left Blanking	7	7	7	6
Right Blanking	7	7	7	8

1400		
MSP		
AGC ON/OFF	ON	
Constant gain CDB	0	
FM prescale FMP	36	
Zwei mono-st WHI	36	
Zwei st-mono WLO	18	
Zwei mono-bi WMH	36	
Zwei bi-mono WLO	18	
Time Zwei WML	41	
Fawct limit	10	
Fawct soll init FAW	12	
Fawer tol	2	
Nicam Err Max CCT	10	
Nicam Err Min	0	
Nicam Prescale I	127	
Nicam Prescale L/BG/DK	97	
Time Nicam	31	
Audio clock ACO	HIZ	
Scart prescale	25	
Scart volume	64	
	<u> </u>	

IC STATUS (CXA2076 / C	XA2040)
CXA2076	
H lock	1
IKR	1
VNG	0
X-RAY	0
Colour system	3
CV1 sync	1
CXA2040	
Sync sep	1
S1 mode pin	01
S2 mode pin	01
TUNER	
Tuner status	01101011

TV STATUS BE3D	
Text system	C TEXT
Dolby	YES
Text language set	WEST/EAST
Menu language set	WEST/EAST
Destination	B/D/U
Scart 16:9	ON
RGB priority	OFF
Ageing	OFF/ON
Size	32
Colour trap sw	ALL
Velocity mod	ON
AFT STATUS	WINDOW/HIGH/LOW
Lumisponder Mode	1
Micro/Jungle	SDA5250/CXA2076

SUB BRIGHTNESS ADJUSTMENT

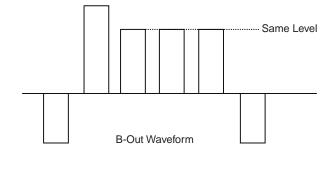
- 1. Input a Phillips pattern.
- 2. Set the picture control to minimum.
- 3. Enter into the 'Picture Adjustment' service menu.
- Adjust the 'Sub-Brightness' data so that there is barely a difference between the 0 IRE and 10 IRE signal levels.

SUB CONTRAST ADJUSTMENT

- Input a video that contains a small 100% area on a black background.
- 2. Set the picture control to maximum.
- 3. Connect an oscilloscope to Pin 3 of CN301 [A Board].
- 4. Enter into the 'Picture Adjustment' service menu.
- Adjust the 'Sub-contrast' data to obtain a black to white amplitude of 2.50V.

SUB COLOUR ADJUSTMENT

- 1. Receive a PAL colour bar video signal.
- 2. Connect an oscilloscope to Pin 3 of CN301 [A Board].
- 3. Enter into the 'Picture Adjustment' service menu.
- 4. Adjust the 'Sub-colour' data so that the Cyan, Magenta and Blue colour bars are of equal height as indicated below.



Note: The data indicated in the 'TV STATUS' table is dependant on destination, screen size and country.

SYSTEM B/G, D/K, I & L I.F ADJUSTMENT

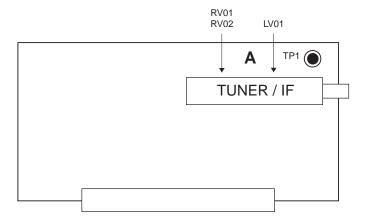
- 1. Input an off air signal of between 60-100dBuV / 75 ohm terminated, via the tuner socket.
- 2. Enter into the 'IF Adjustment' service mode [i.e 'TT59'] to fix the I.F frequency to 38.9MHz.
- 3. Enter into the service mode and select 'Current TV status'.
- Adjust the I.F coil [LV01] until the 'AFT Status' indicates a 'Window' condition.

SYSTEM L BAND 1 I.F ADJUSTMENT

- 1. Input an off air signal of between 60-100dBuV / 75 ohm terminated, via the tuner socket.
- 2. Enter into the 'IF Adjustment' service mode [i.e 'TT59'] to fix the I.F frequency to 38.9MHz.
- 3. Enter into the service mode and select 'Current TV status'.
- 4. Adjust the RV02 control until the 'AFT Status' indicates a 'Window' condition.

TUNER AGC ADJUSTMENT

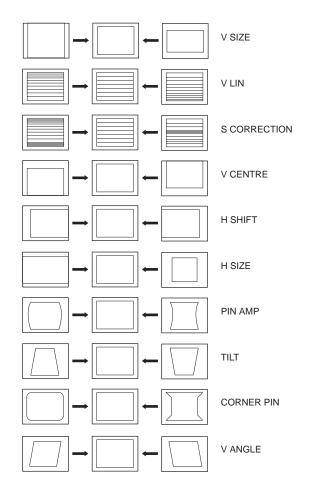
- Receive a signal of 63dBuV / 75 ohm terminated, via the tuner socket.
- 2. Measure the voltage at test point 1 [A Board].
- 3. Adjust RV01 control to obtain a voltage of 3.0V +/- 0.3V.



DEFLECTION SYSTEM ADJUSTMENT

- 1. Enter into the 'Geometry Adjustment' service menu.
- Select and adjust each item in order to obtain the optimum image.

GEOMETRY ADJU	STMENT
V size	Adj
V position	Adj
S Correction	Adj
V Linearity	Adj
H size	Adj
H position	Adj
Pin Amp	Adj
Pin Phase	Adj
AFC Bow	Adj
AFC Angle	Adj
EHT V	1
EHT H	0
Lo Corn Pin	Adj
Up Corn Pin	Adj



4-2. TEST MODE 2:

Is available by pressing 'TEST' button twice, OSD 'TT' appears. The functions described below are available by pressing the two numbers. To release the Test mode 2, press 0 twice, or switch the TV into stand-by mode.

Note: 'TT' modes 40 - 49 require the TV set to be in programme 59 before the command is accepted. Some test modes are dependant upon the model.

00	Cancel Test mode		
01	Picture maximum		
02	Picture minimum		
03	Volume 30%		
04	Volume 50%		
05	Volume 65%		
06	Volume 80%		
07	Ageing mode		
08	Set shipping conditions		
09	Reset language select menu on power up		
10	No function		
11	Clear & Disable OSD		
12	Enable OSD		
13	Scart 16:9 Enable / Disable		
14	Display TV status		
15	Picture reset		
16	Set 32" chassis (Wide models only)		
17	Set all AV labels to default		
18	RGB priority Enable / Disable		
19	Set all programme labels to default		
20	No function		
21	Sub picture adjustment (use red/yellow)		
22	Sub colour adjustment (use red/yellow)		
23	Sub brightness adjustment (use red/yellow)		
24	Destination U		
25	Destination D		
26	Destination B		
27	Destination K		
28	Destination L		
29	Destination E		
30	No function		
31	Destination A		
32	Destination R		
33	Sub Woofer Enable		
34	Sub Woofer Disable		
35	Set up trap switch		
36	Rotation test		
37	Set 25" (24" Wide models)		
38	Set 29" (28" Wide models)		
39	D/K Nicam enable		
40	No function		
41	Re-initialize the NVM		
	1		

42	Default Programme info in NVM with manufacturing		
	factory channel setup		
43	Default Geometry settings		
44	Default favourite pages to 100,101,102 and 103		
45	Switch off all channel locks		
46	Dealer commander mode (pending)		
47	Default MSP settings		
48	Restore NVM test byte Undo 'TT49'		
49	Delete NVM test byte Sets virgin NVM		
50	No function		
51	Text interface odd (NON INTERLACED MODE = 3)		
52	Text interface even (NON INTERLACED MODE = 2)		
53	Auto picture ON		
54	Auto picture OFF		
55	Auto cut off ENABLE		
56	Auto cut off DISABLE		
57	AV3 ENABLE		
58	AV3 DISABLE (if TV Text) otherwise AV3 ENABLE		
59	Auto IF Display		
60	No function		
61	Dolby Pro-Logic ON		
62	Noise Left		
63	Noise Right		
64	Noise Centre		
65	Noise Surround		

66 DSP Bypass 67 D/K Nicam Disable 68 Diagnostics OFF 69 Diagnostics ON 70 No function 71 Lumisponder Curve 1 72 Lumisponder Curve 2 73 Jungle Select (CXA2000 or CXA2076) 74 Text H Position adjust 75 Picture reset 76 MSP BG filter enabled (h/w required)
68 Diagnostics OFF 69 Diagnostics ON 70 No function 71 Lumisponder Curve 1 72 Lumisponder Curve 2 73 Jungle Select (CXA2000 or CXA2076) 74 Text H Position adjust 75 Picture reset
69 Diagnostics ON 70 No function 71 Lumisponder Curve 1 72 Lumisponder Curve 2 73 Jungle Select (CXA2000 or CXA2076) 74 Text H Position adjust 75 Picture reset
70 No function 71 Lumisponder Curve 1 72 Lumisponder Curve 2 73 Jungle Select (CXA2000 or CXA2076) 74 Text H Position adjust 75 Picture reset
71 Lumisponder Curve 1 72 Lumisponder Curve 2 73 Jungle Select (CXA2000 or CXA2076) 74 Text H Position adjust 75 Picture reset
72 Lumisponder Curve 2 73 Jungle Select (CXA2000 or CXA2076) 74 Text H Position adjust 75 Picture reset
73 Jungle Select (CXA2000 or CXA2076) 74 Text H Position adjust 75 Picture reset
74 Text H Position adjust 75 Picture reset
75 Picture reset
76 MSP BG filter enabled (h/w required)
77 Sound reset
78 MSP BG filter disabled (h/w required)
79 Wide set-up (Wide screen models only)
80 No function
81 Velocity mod ON
82 Velocity mod OFF
83 Picture Rise step 40ms
84 Picture Rise step 80ms
85 Picture Rise step 160ms
86 Picture Rise OFF
87 Select Shop Mode
88 Compact Text Acquisition Disable
89 Compact Text Acquisition Enable
90 No function
91 Sound Centre mode NORMAL
92 Sound Centre mode WIDE
93 Sound Centre mode PHANTOM
94 Toggle Compact Text Acquisition Delay Bit 0
95 Toggle Compact Text Acquisition Delay Bit 1
96 Toggle Compact Text Acquisition Delay Bit 2
97 Toggle Compact Text Acquisition Delay Bit 3
98 Toggle Compact Text Acquisition Delay Bit 4
99 Set test menu

The shaded test modes indicated in bold can set the delay byte to any value 0-31 which creates a (value x 20) mS delay. **Note:** Compact Text models only.

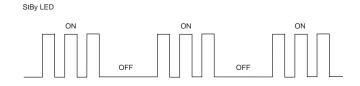
4-3. BE-3D SELF DIAGNOSTIC SOFTWARE

The identification of errors within the BE-3D chassis is triggered in one of two ways:- 1: Busy busy or 2: Device failure to respond to IIC. In the event of one of these situations arising the software will first try to release the bus if busy [Failure to do so will report with continuous flashing LED] and then communicate with each device in turn to establish if a device is faulty. If a device is found to be faulty the relevant device number will be displayed through the LED [Series of flashes which must be counted] See Table 1., non fatal errors are reported using this method.

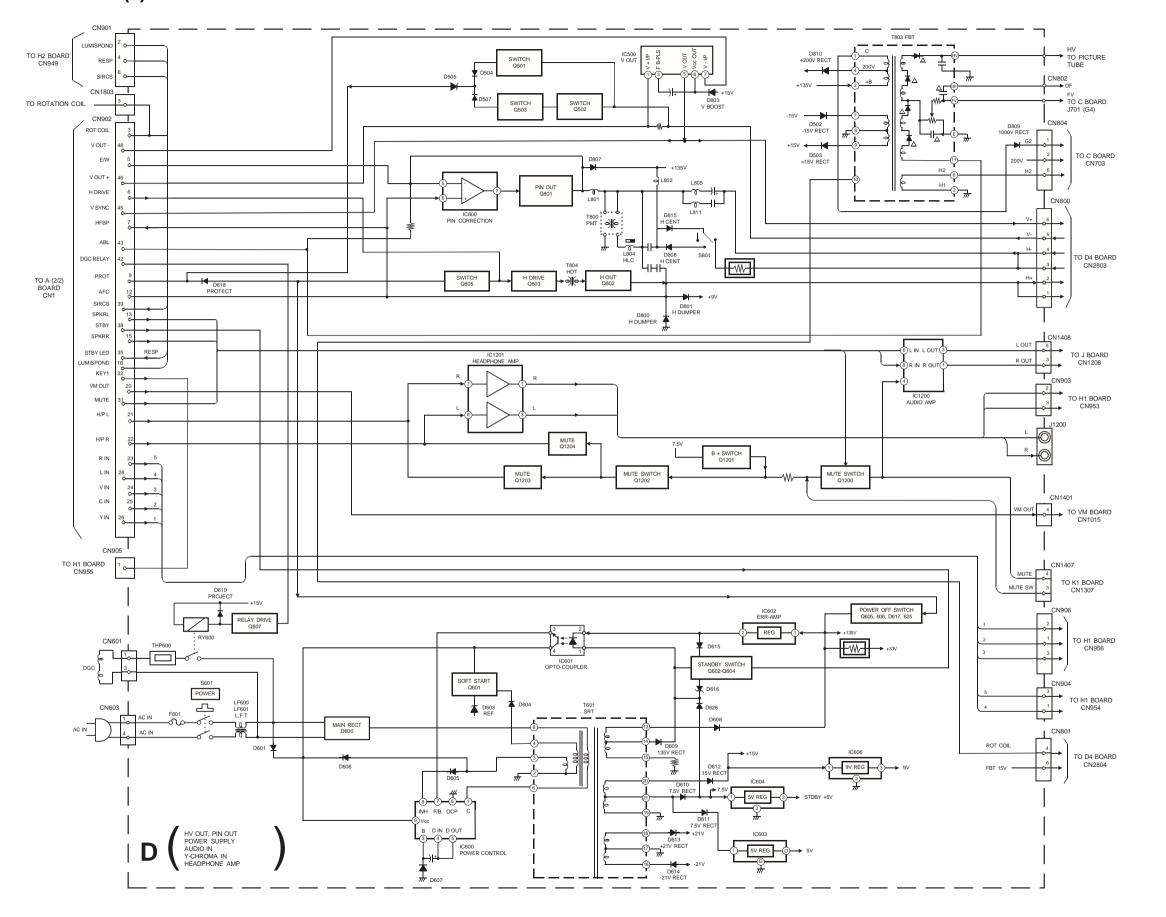
ERROR	LED ERROR COUNT
No error	00
Not allowed (may be confused with Sircs response flash!)	01
Protection circuit trip < ANY TIME >	02
IIC SCL LOW < POWER UP ONLY >	03
IIC SDA LOW < POWER UP ONLY >	04
IIC SDA & SCL LOW < POWER UP ONLY >	05
Jungle / Chroma controller no acknowledge < POWER UP ONLY >	06
Video Switch no acknowledge < POWER UP ONLY >	07
Tuner no acknowledge	08
MSP no acknowledge	09
NVM no acknowledge	10
M3L TXD Low < POWER UP ONLY >	11
M3L RXD Low < POWER UP ONLY >	12
M3L ENABLE Low < POWER UP ONLY >	13
M3L TXD & RXD Low < POWER UP ONLY >	14
Compact Text test fail < POWER UP ONLY >	15
AV switch cannot power on reset < Chassis Initialisation >	16
Cannot initialise jungle (after initial power on checked out OK) - < Chassis initialisation >	17
NVM acknowledge fail after initialisation (STBY +5V same as micro!)	18
Multiple devices with no acknowledge < POWER UP ONLY >	19
Compact text run-time failure after power up check (+9V test)	20
AV SWITCH response failure after power up check (+9V test)	21
JUNGLE / CHROMA controller response failure after power up check (-9V test)	22
Compact text does not respond (-5V test)	23
MSP run-time failure < MAY NOT BE FATAL-DISPLAY ON ERROR READER >	24

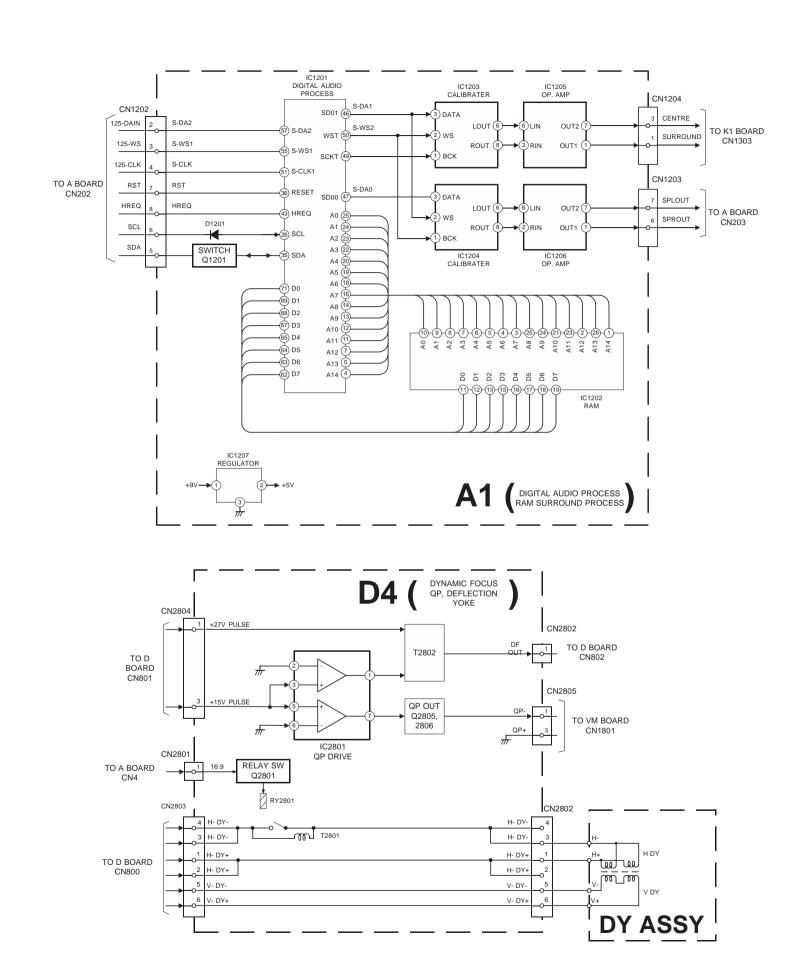
M3L bus Clock low time out after data send (run-time failure)	25
M3L bus Clock low time out after data send (at power up check)	26
M3L bus Clock low time out after data send (at initialisation)	27
DSP run-time failure < MAY NOT BE FATAL-DISPLAY ON ERROR READER >	28

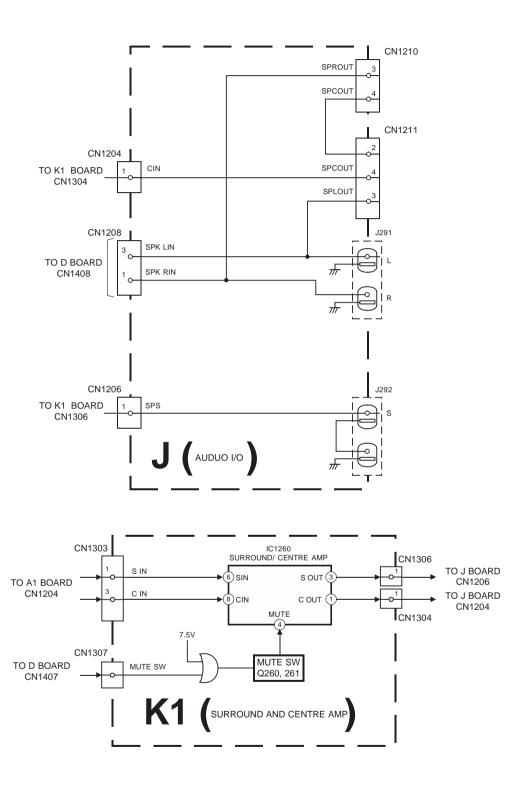
Flash Timing Example: e.g. error number 3



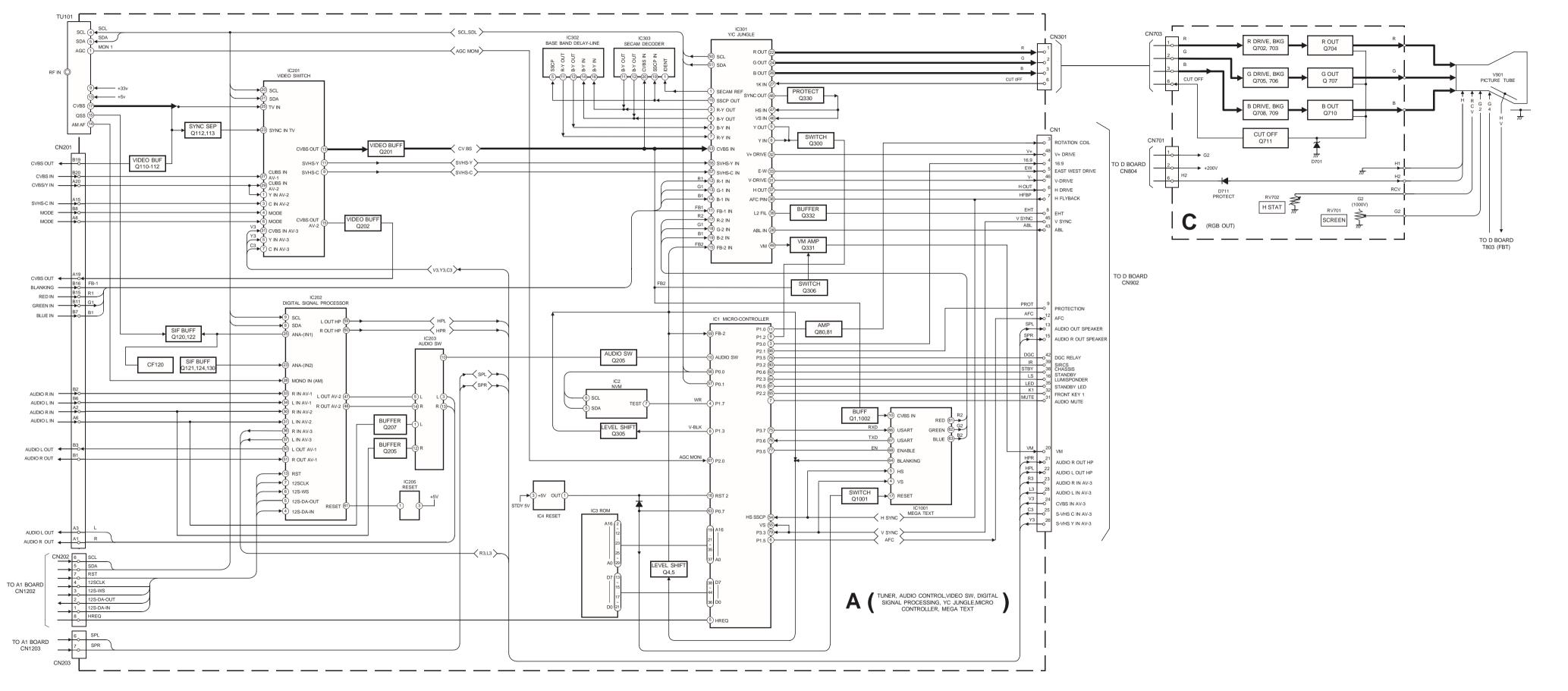
5-1 BLOCK DIAGRAMS (1)

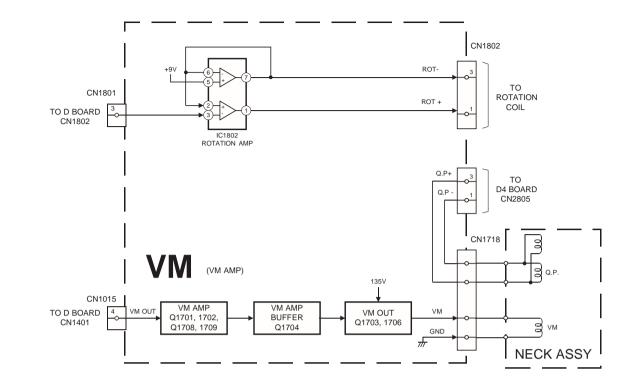


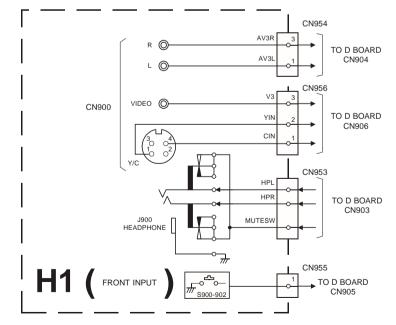


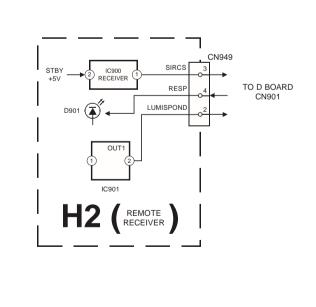


36



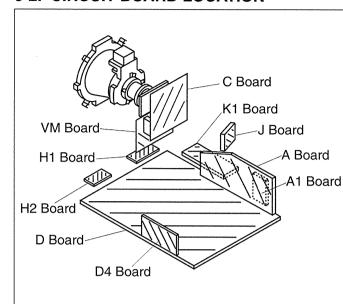






39 41

5-2. CIRCUIT BOARD LOCATION



5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

- All capacitors are in µF unless otherwise noted.
- pF : μμF 50WV or less are not indicated except for electrolytic types.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch: 5mm Electrical power rating: 1/4W

- Chip resistors are 1/10W
- All resistors are in ohms.
- k = 1000 ohms, M = 1000,000 ohms

• : nonflammable resistor.

• : fusible resistor.

• \triangle : internal component.

: panel designation or adjustment for repair.

- All variable and adjustable resistors have
- characteristic curve B, unless otherwise noted.
- All voltages are in Volts.
- Readings are taken with a 10Mohm digital mutimeter.
- Readings are taken with a color bar input signal.
- Voltage variations may be noted due to normal production tolerences.

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: earth - ground.

• ; earth - chassis.

Reference Information

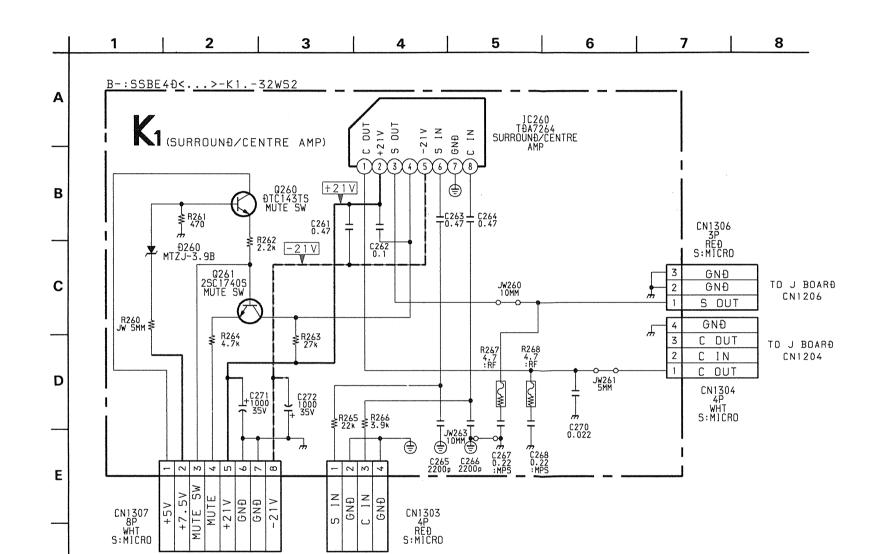
RESISTOR RN

	1	
	RC	: SOLID
	FPRD	: NON FLAMMABLE CARBON
	FUSE	: NON FLAMMABLE FUSIBLE
	RS	: NON FLAMMABLE METAL OXIDE
	RB	: NON FLAMMABLE CEMENT
	RW	: NON FLAMMABLE WIREWOUND
	※	: ADJUSTMENT RESISTOR
COIL	LF-8L	: MICRO INDUCTOR
CAPACITOR	TA	: TANTALUM
	PS	: STYROL
	PP	: POLYPROPYLENE
	PT	: MYLAR
	MPS	: METALIZED POLYESTER
	MPP	: METALIZED POLYPROPYLENE
	ALB	: BIPOLAR
	ALT	: HIGH TEMPERATURE
	ALR	: HIGH RIPPLE

: METAL FILM

Note: The components identified by shading and marked \triangle are critical for safety. Replace only with the part numbers specified in the parts list.

Note: Les composants identifiés par une trame et par une marque Δ sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié. specified.



TO A1 BOARĐ

CN1204

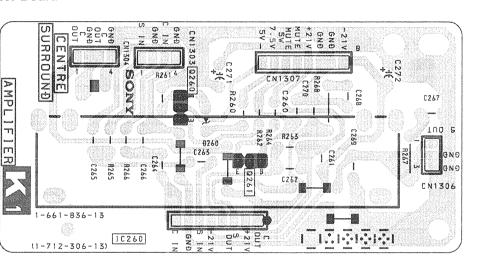
TO Ð BOARÐ

CN1407



SURROUND AND CENTRE AMP

K1 Board



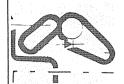
K1 BOARD TRANSISTOR VOLTAGE TABLE

Tr	Transistor Voltage Table			
Ref No	(B) Base	(C) Collector	(E) Emitter	
Q260	3.4	2.9	2.9	
Q261	2.9	21.6	4.8	

K1 BOARD IC VOLTAGE TABLE

IC Voltage Table			
Ref No	Pin No	Voltage (V)	
	2	21.7	
IC260	4	21.6	
	5	-21.8	





NOTE:

The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

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1-670-314-13SONY

D BOARD

	IC	D	IODE
IC500	G - 13	D603	C - 7
IC600	B - 8	D604	D - 7
IC601	D - 6	D605	C - 6
IC602	F - 10	D606	C - 6
IC603	G - 5	D607	C - 7
IC604	F - 7	D608	F-9
IC606	E - 6	D609	F-9
IC800	F - 12	D610	F-7
IC900	D - 1	D611	F-6
IC1200	G - 10	D612	E-7
IC1201	F - 5	D613	F-8
		D614	F-8
TRAN	ISISTOR	D615	H - 7
Q501	H - 14	D616	G - 7
Q502	H - 14	D617	F - 9
Q503	H - 14	D618	F - 11
Q601	C - 7	D619	E - 6
Q602	G - 7	D620	E-6
Q603	H - 7	D622	E - 6
Q604	G - 7	D625	G - 9
Q605	F - 9	D626	G - 6
Q606	H - 7	D631	F-6
Q607	D - 7	D637	E - 5
Q802	A - 11	D800	F - 12
Q803	E - 11	D801	G - 12
Q805	F - 10	D802	G - 12
Q900	G - 4	D803	F - 13
Q1200	H - 10	D807	Ę - 12
Q1201	G - 6	D808	E - 14
Q1202	G - 5	D809	A - 14
Q1203	G - 5	D810	A - 13
Q1204	G - 5	D812	B - 11
DI	ODE	D815	E - 14
D500	H - 12	D817	H - 11
D502	H - 13	D902	1 - 5
D503	I - 14	D903	H - 4
D504	H - 11	D904	H - 5
D505	H - 13	D905	1 - 5
D506	I - 14	D906	l - 5
D507	H - 13	D907	D - 1
D510	F - 13	D910	G - 2
D570	F - 14	D920	G - 2
D571	F - 13	D1201	G - 6
D600	A - 7	D1202	G - 5
D601	C - 6		

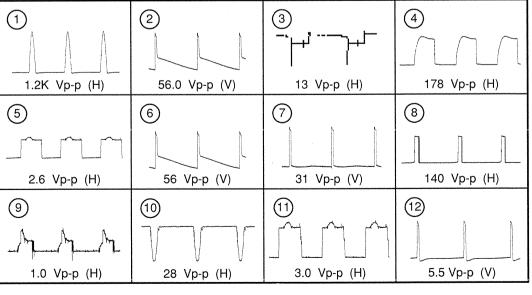
D BOARD

IC Voltage Table				
Ref No	Pin No	Voltage (V)		
	1	1.5		
	2	15.0		
	3	-12.3		
IC500	4	-14.0		
	5	0.1		
	6	15.2		
	7	1.4		
	1	170.0		
	2	-62.4		
	3	-62.6		
	4	-62.2		
IC600	5	-62.0		
	6	-62.6		
	7	-62.4		
	8	-62.0		
	9	-58.0		
	1	64.3		
IC601	2	63.0		
	3	-62.5		
	4	-58.6		
	1	135.0		
IC602	2	63.2		
	3	-0.1		
	3	0.9		
	5	1.5		
IC800	6	2.0		
	7	0.2		
	8	9.0		
	2	21.7		
IC1200	4	21.5		
	5	-21.7		
	1	4.0		
IC1201	2	9.0		
	3	4.0		
	5	0.5		
	6	0.5		

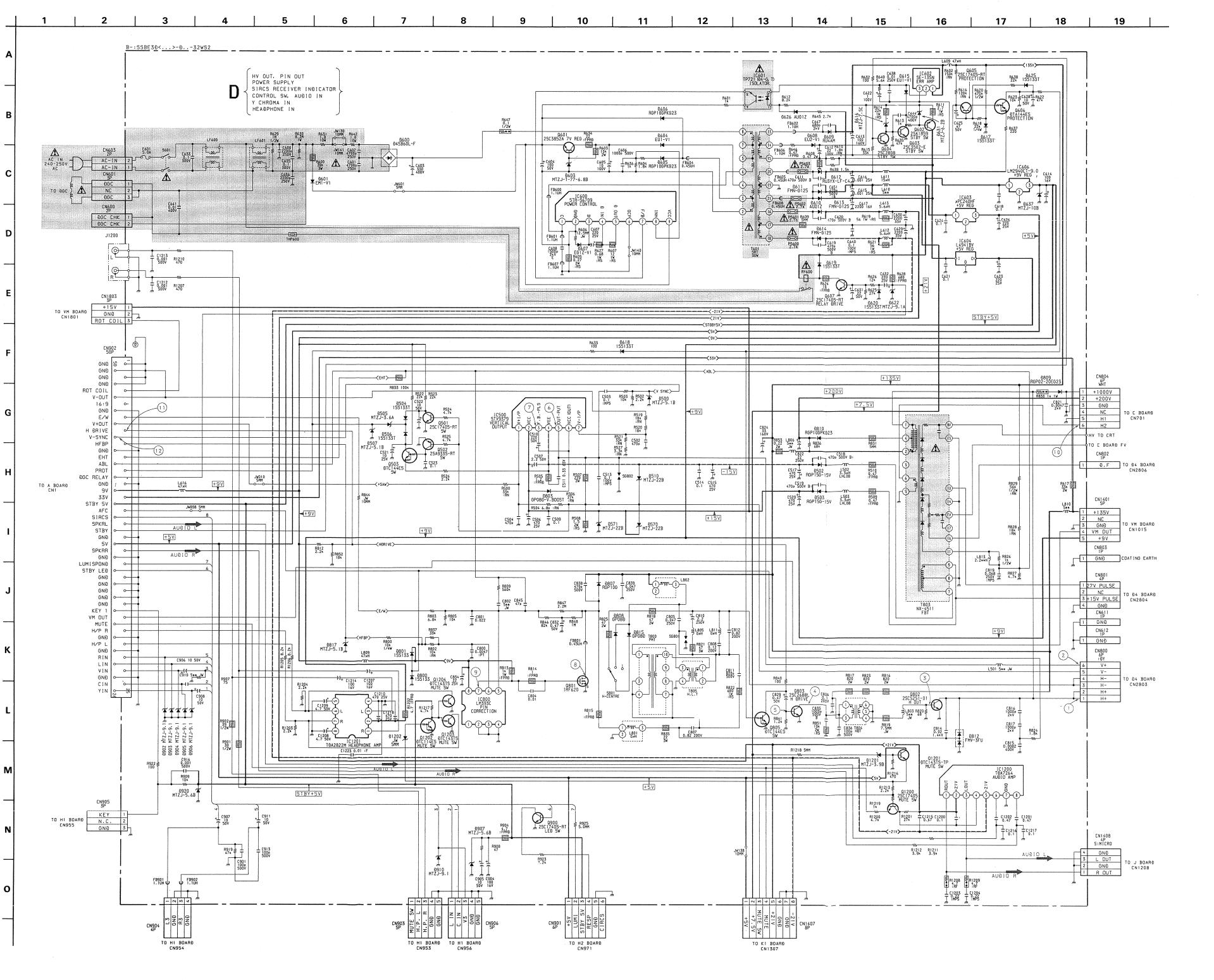
D BOARD TRANSISTOR VOLTAGE TABLE

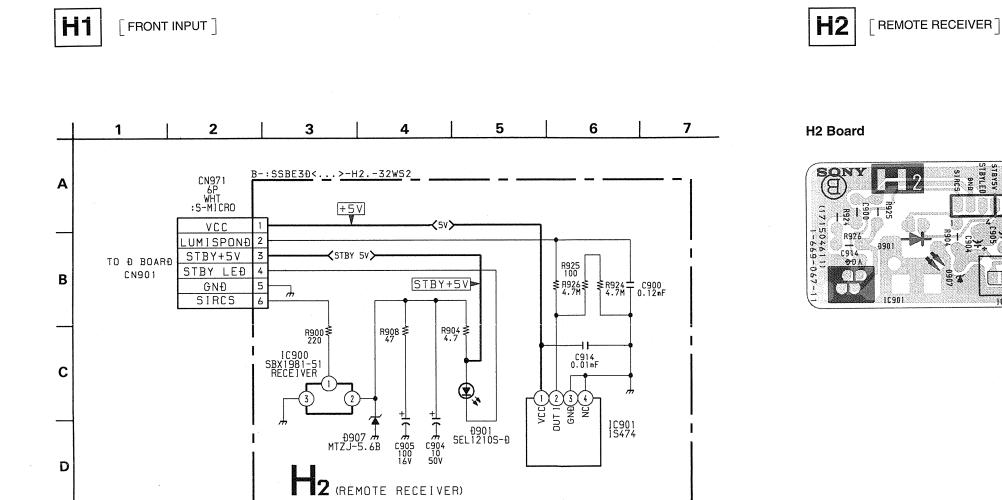
Transistor Voltage Table			
Ref No	(B) Base	(C) Collector	(E) Emitter
Q501	-0.1	0.2	-
Q502	0.1	-5.8	-
Q503	-5.8	-12.0	-12.0
Q602	72.0	7.5	72.7
Q603	0	72.0	-
Q604	0.7	-	-
Q605	0.5	-	0.3
Q606	-	-	12.0
Q607	-	12.0	-
Q802	-0.2	143.3	-
Q803	-0.6	99.8	-
Q805	-	3.6	-
Q900	-	5.4	-
Q1200	2.9	21.5	4.6
Q1201	3.4	5.0	3.0
Q1202	2.8		-

WAVEFORMS D BOARD

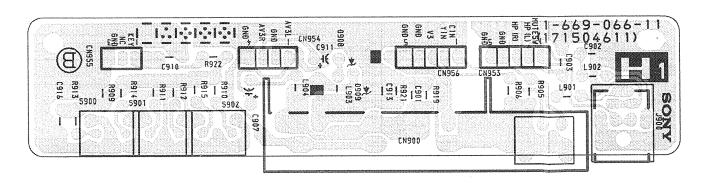


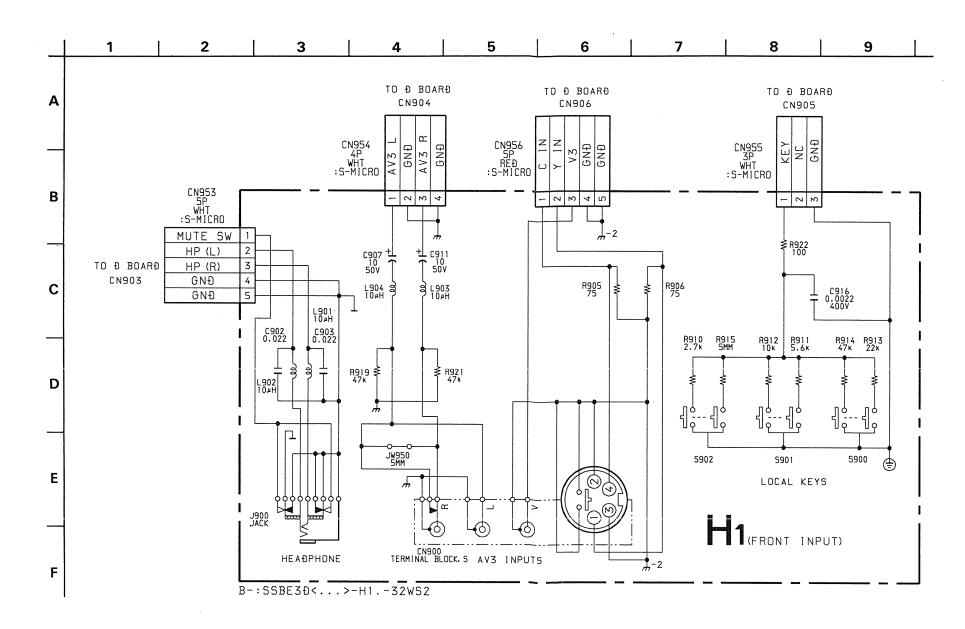
VERTICAL DEFLECTION "

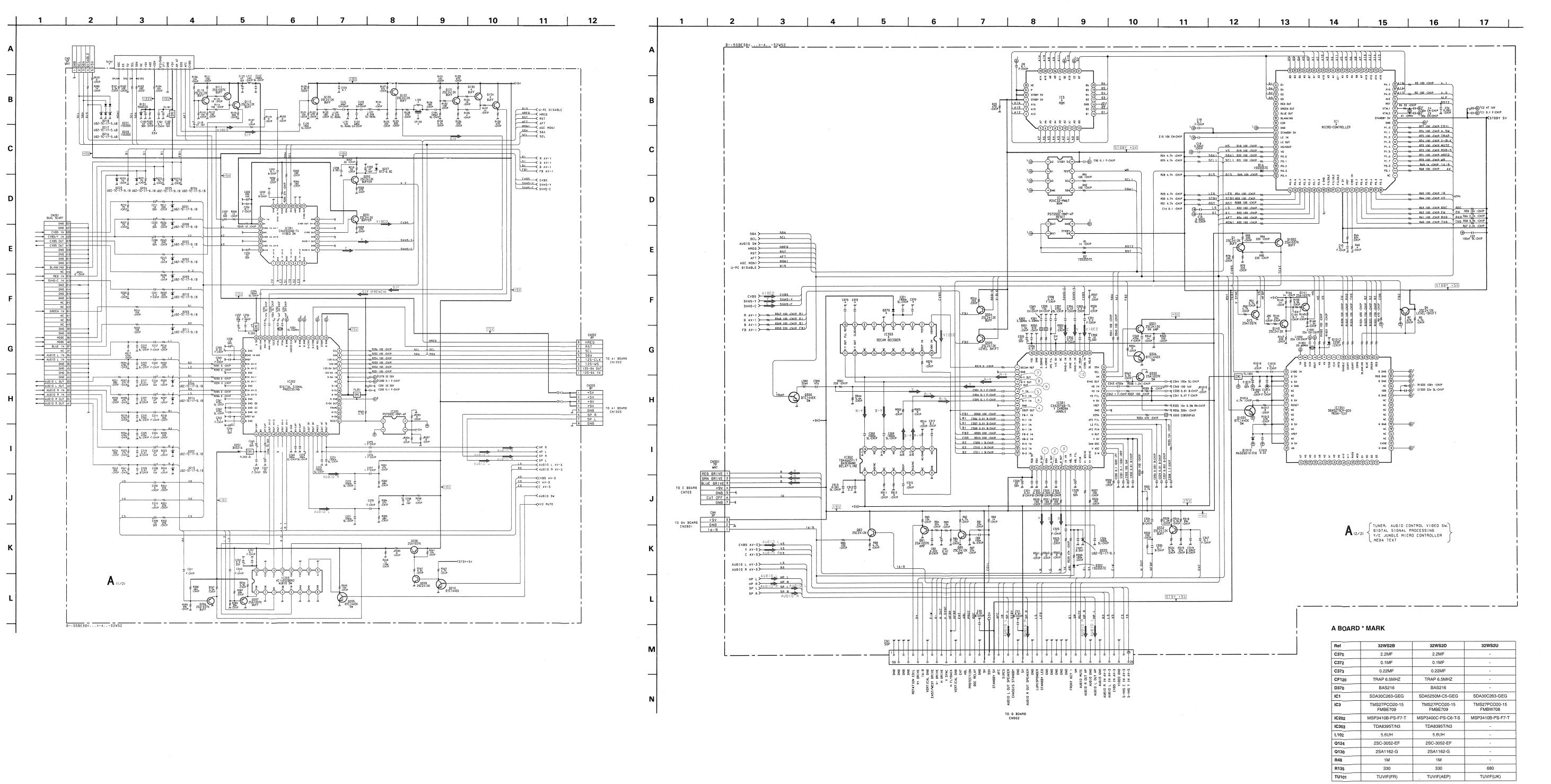












A (1/2) BOARD IC VOLTAGE TABLE

	IC Voltage Tab	le
Ref No	Pin No	Voltage (V)
	13	4.4
	15	4.4
	20	3.5
	21	2.7
IC201	22	4.9
	23	4.4
	24	0
	25	4.4
	26	8.8
	32	4.4
	4	2.8
	6 - 7	0.1
	8	3.0
	9	3.6
	11	4.7
	13	4.7
	20 - 21	2.4
	23	0.2
IC202	25	1.5
	26	4.8
	28	3.8
	29	2.6
	39 - 42	3.8
	44	7.1
	45	8.0
	46	7.1
	47 - 48	3.8
	53 - 54	3.8
	1	4.7
	3	3.8
	5	3.8
IC203	10	9.0
	12	4.7
	13	3.8
	14	3.8

A (2/2) BOARD TRANSISTOR VOLTAGE TABLE

Transistor Voltage Table				
Ref No	(B) Base	(C) Collector	(E) Emitter	
Q1	3.7	4.8	3.1	
Q4	0.1	4.8		
Q15	-	4.3	-	
Q16	4.3	0.2	-	
Q17	0.4	3.5	-	
Q18	3.5	0.7	-	
Q80	2.6	2.2	-	
Q81	2.4	-	3.0	
Q304	-	4.8	-	
Q305	-	4.8	-	
Q330	4.5	-	5.1	
Q331	6.3	8.8	5.7	
Q332	3.1	8.8	2.5	
Q1001	4.4	-	-	

A (1/2) BOARD

TRANSISTOR VOLTAGE TABLE

Ref No	(B) Base	(C) Collector	(E) Emitter			
)	1.8	8.2	1.2			
2	1.5	8.8	0.8			
0	84.3	8.8	3.7			
1	1.5	5.4	0.9			
2	5.4	8.8	4.7			
4	-	8.8	-			
1	4.4	8.8	3.7			
2	4.4	8.8	3.7			

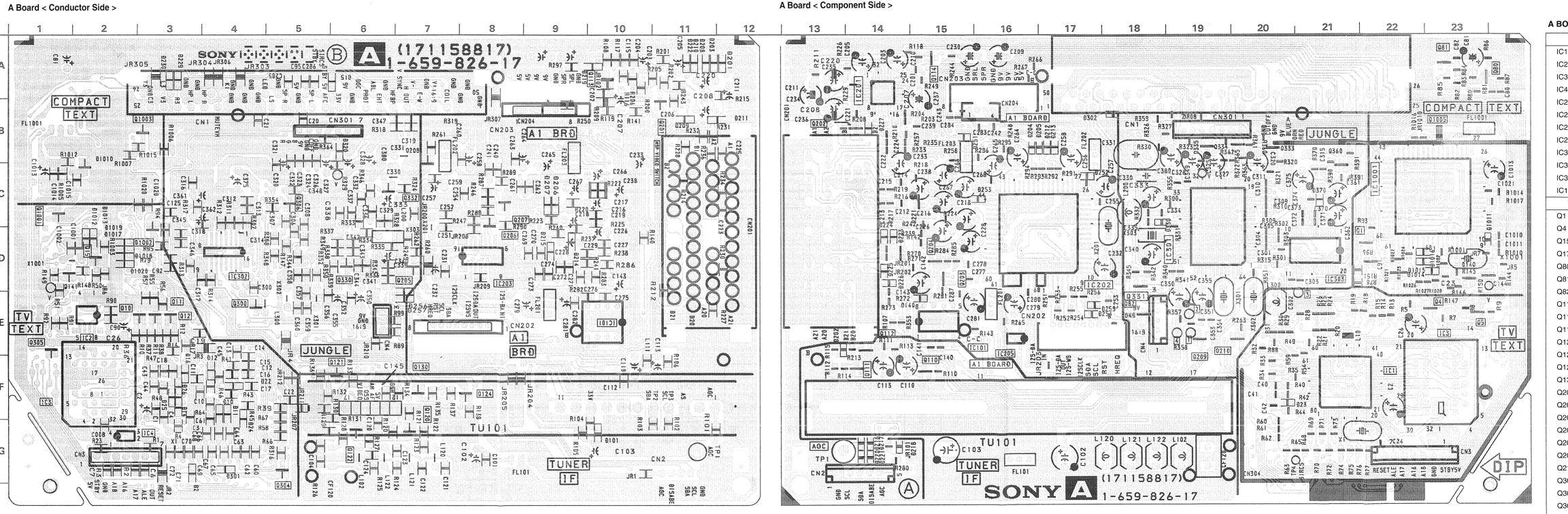
WAVEFORMS A BOARD

WAVEFORMS A BO	ARD			
1	2	③ PAL/SECAM	③ NTSC	4
3.5 Vp-p (H)	3.0 Vp-p (H)	3.0 Vp-p (H)	2.3 Vp-p (H)	5.1 Vp-p (H)
(5)	6 1.4 Vp-p (H)	7 PAL/NTSC	7 SECAM 0.5 Vp-p (H)	8 PAL 0.8 Vp-p (H)
8 SECAM	8 NTSC	9 PAL/SECAM	NTSC	10
	LMHMHM	A Janan Ja	- Transfer	
1.5 Vp-p (H)	0.9 Vp-p (H)	0.5 Vp-p (H)	0.4 Vp-p (H)	1.0 Vp-p (H)

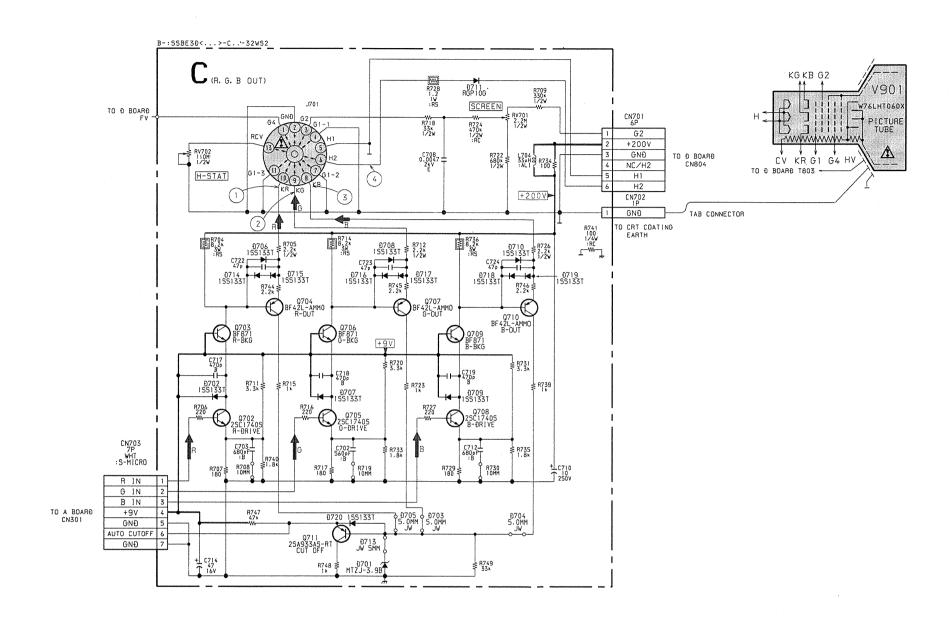
A (2/2) BOARD IC VOLTAGE TABLE

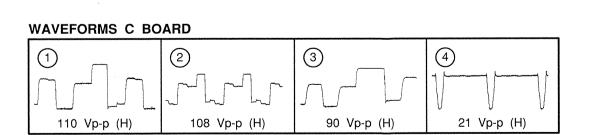
				C Voltage 1	lable			
Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)	Ref No	Pin No	Voltage (V)
	2	3.6		5	3.6	IC301	61	5.0
	3 - 4	4.8		6	5.0		62	7.6
	5	0.5		7 - 8	5.4		1	4.8
	7	4.8		10	0.6		5	0.7
	9	4.8		12 - 14	5.4	IC302	9	4.8
	11	2.4		16	4.0		11 - 12	3.0
	13	4.8		17 - 19	5.4		14	1.3
	14 - 15	2.3		20	8.8		16	1.3
	16 - 17	4.8		22 - 23	2.2		5	8.0
	48	4.0		24	2.0		3.2	10
	51	4.8		25	2.4		11	5.6
	52 - 53	2.4		26	2.0	IC303	0	19
	54	0.7		27	4.0		20	3.7
	55	0.2		28	6.6		4	0.2
	56 - 57	4.8		29	8.8		5	0.7
IC1	58	2.8		31 - 33	3.0		4	0.2
	59	3.5		34	4.0	1	5	0.7
	60	2.4		35	4.6		6	1.7
	62	0.7	IC301	36	8.8		7	1.8
	63	4.4		37	3.1		10	0.4
	65	4.8		38	3.4		11 - 12	4.8
	66	2.1		39	5.3		16	4.8
	67	2.0		40	4.2		17	0
	69 - 71	2.3		41	2.3	IC1001	21	4.8
	72	4.8		43	1.7]	23	3.0
	73	1.5		44	8.8]	25	4.8
	74	1.2	Parameter	45	2.5		56	0
	75 - 77	4.8		46	3.9	1	61	1.3
	79	0.2		47	3.0]	62 - 63	1.4
	80	4.8	1	48	4.4]	64	0
IC2	5 - 8	4.8	1	49	6.3	1	66	4.6
IC3	1	4.8	1	50 - 51	0.1	1		
	31 -3 2	4.8	1	53	3.9	1		
IC4	1	4.8	1	54	5.0	1	67	4.7
	3	4.8	1	55 - 56	4.2	1	68	4.0
IC301	1	1.5	1	58 - 59	8.8		***************************************	***************************************
	3 - 4	5.6	1	60	5.3	1		

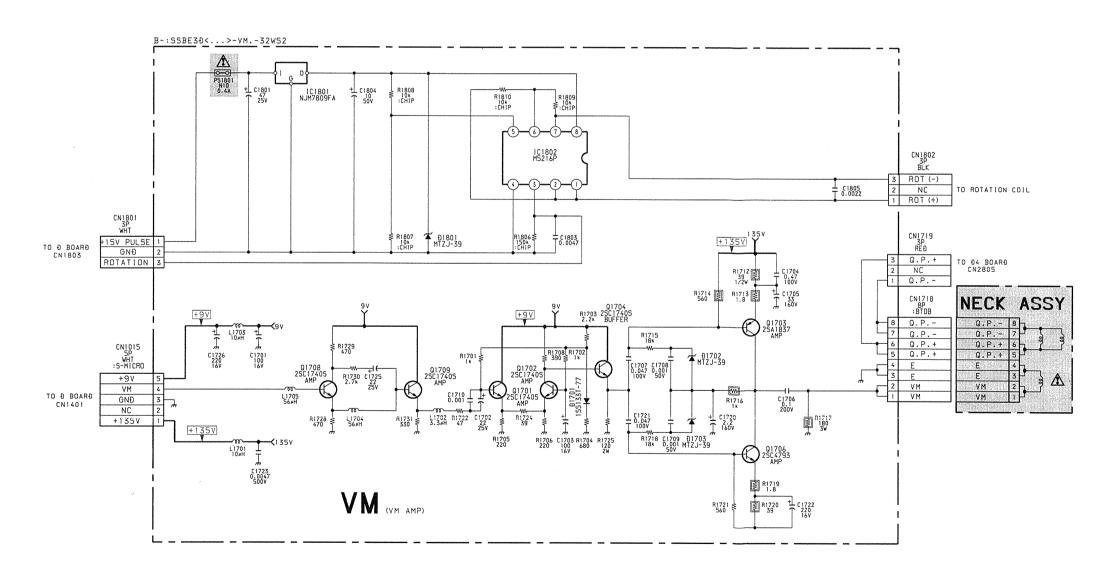


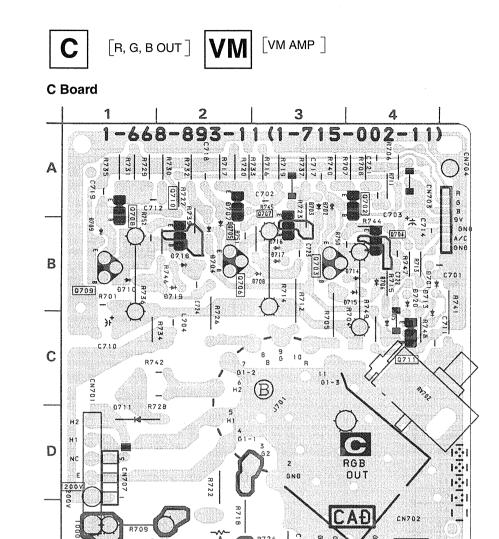


	A BOARD			
		IC	Q330	D - 6
	IC1	F - 21	Q331	D - 18
	IC2	E - 2	Q332	C - 6
	IC3	F-2	Q1001	C - 1
	IC4	G - 2	Q1002	C - 3
1	IC201	A - 14	DIO	DE
<u></u>	IC202	C - 16	D2	G - 3
	IC203	D - 8	D16	E - 21
	IC205	F - 16	D101	F - 9
	IC301	C - 19	D201	A - 11
	IC302	D - 4	D202	E - 13
	IC303	D - 21	D203	A - 11
014	IC1001	G - 14	D206	C - 9
017	TRAN	ISISTOR	D207	C - 9
	Q1	D - 21	D208	A - 11
	Q4	E - 22	D209	B - 11
10 11	Q15	D - 2	D210	A - 11
49	Q17	D - 22	D211	B - 11
5	Q80	A - 23	D212	B - 16
	Q81	A - 22	D214	D - 9
	Q82	D - 18	D215	D - 9
	Q110	F - 14	D216	G - 14
	Q111	E - 14	D217	G- 14
İ	Q112	E - 14	D218	G - 14
Ħ	Q120	F-7	D220	G - 14
	Q122	F-6	D221	D - 14
	Q124	F - 7	D222	D - 14
1	Q130	F - 7	D223	D - 14
	Q201	B - 10	D224	D - 14
	Q202	B - 13	D225	D - 14
	Q205	D - 7	D226	D - 14
İ	Q206	C - 8	D227	B - 14
	Q207	C - 8	D251	B - 15
	Q209	E - 19	D302	B - 17
PII	Q210	E - 19	D320	C - 5
	Q300	E - 4	D370	C - 21
	Q304	G - 5	D1010	C - 10
	Q305	E - 1	D1012	F - 20
	Q306	C - 5		









C BOARD

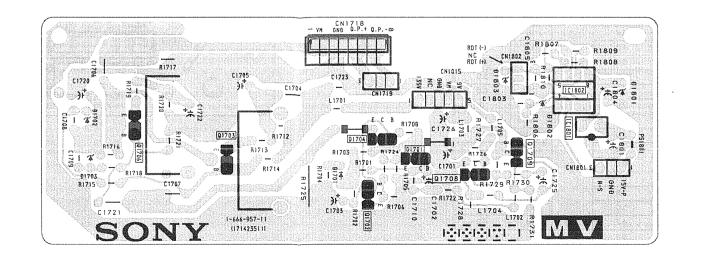
TRANSISTOR VOLTAGE TABLE

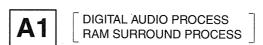
Transistor Voltage Table					
Ref No	(B) Base	(C) Collector	(E) Emitter		
Q702	2.0	11.4	1.4		
Q703	12.0	168.3	11.4		
Q704	168.3	6.0	163.5		
Q705	1.7	11.4	1.2		
Q706	12.0	178.8	11.4		
Q707	178.2	6.2	173.8		
Q708	2.0	11.4	1.4		
Q709	12.0	168.3	11.4		
Q710	168.0	6.4	160.0		

VM BOARD TRANSISTOR VOLTAGE TABLE

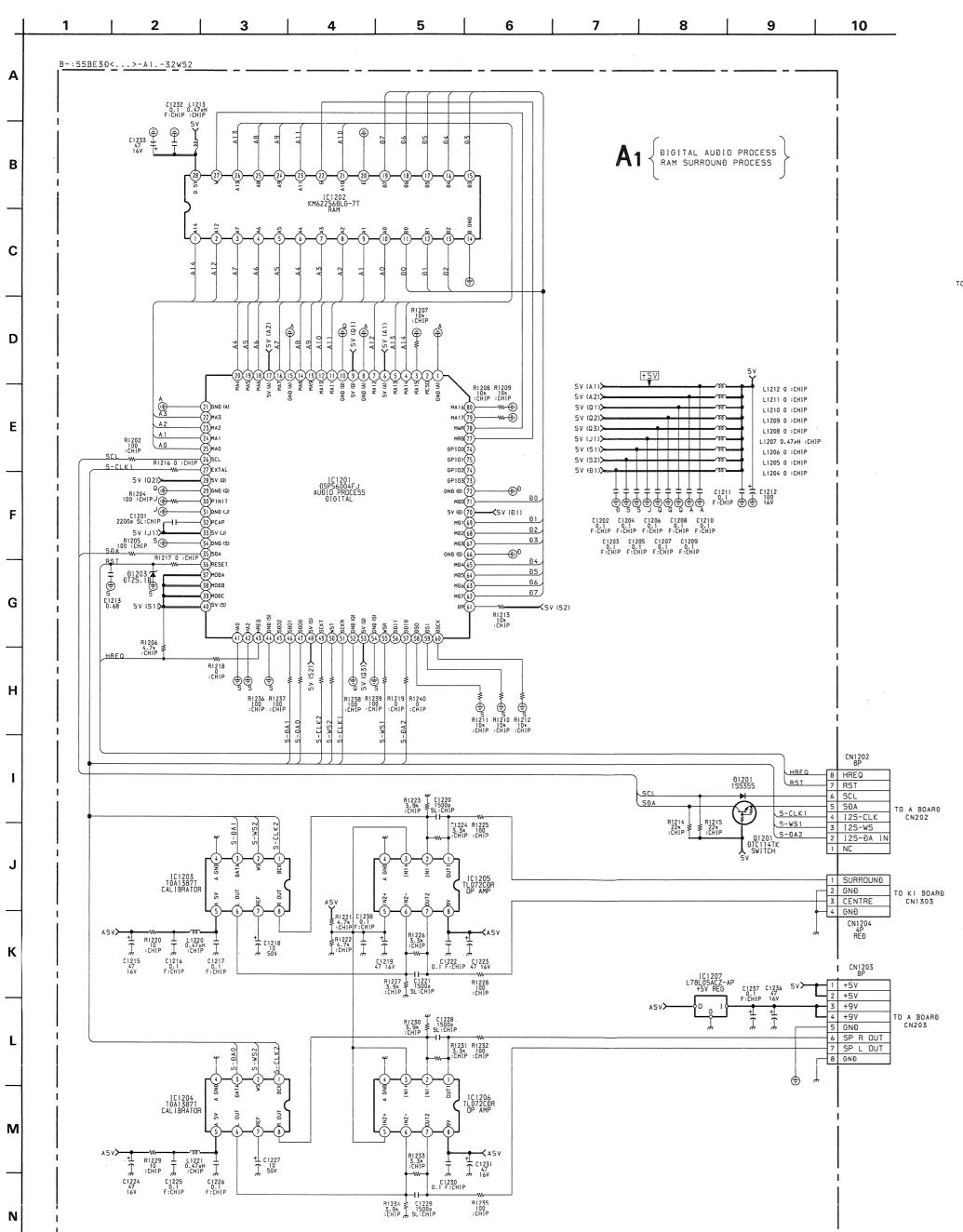
Transistor Voltage Table					
Ref No	(B) Base	(C) Collector	(E) Emitter		
Q1701	2.5	8.8	1.8		
Q1702	2.5	5.5	1.8		
Q1703	134.3	71.8	134.8		
Q1704	5.5	8.8	4.8		
Q1706	1.0	71.8	0.4		
Q1707	0.7	-	-		
Q1708	2.9	6.6	2.2		
Q1709	2.2	8.8	1.5		
Q1840	0.6	-	-		

VM Roa

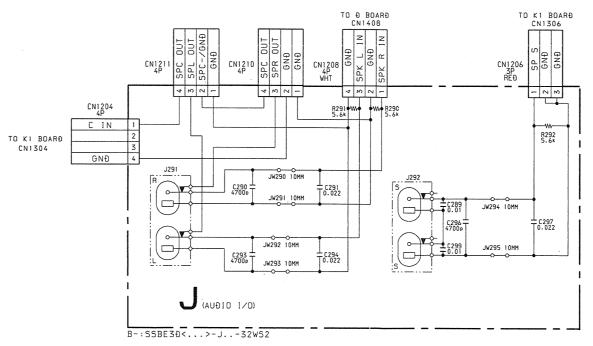




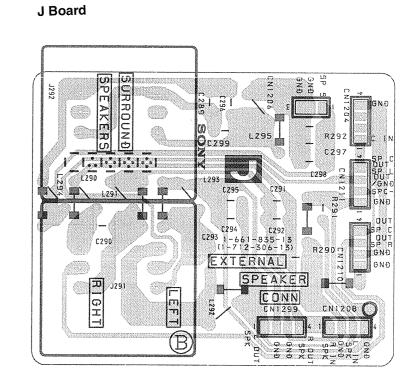




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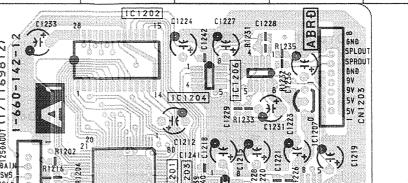


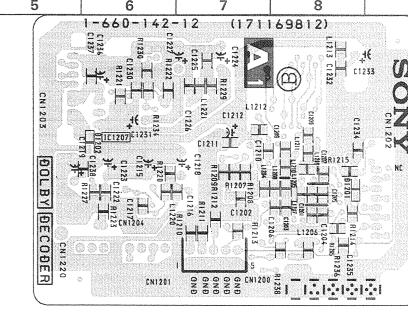
A1 Board



A1 BOARD IC VOLTAGE TABLE

	IC Voltage Tab	le
Ref No	Pin No	Voltage (V)
	6	4.8
	9	4.8
	17	4.8
	26	3.5
	27	2.3
	28	4.8
	32	1.1
	33	4.8
IC1201	35	3.0
	36 - 40	4.8
	43	4.8
	48	4.8
	53	4.8
	58	4.8
	61	4.8
	70	4.8
	77 - 78	4.8
IC1202	22	4.8
	27 - 28	4.8
	5	5.0
IC1203	6	2.5
	7	0.8
	8	2.5
	5	5.0
IC1204	6	2.5
	7	0.8
	8	2.5
	1	2.3
	2-3	2.5
IC1205	5-6	2.5
	7	2.3
	8	5.0
	1	2.3
IC1206	2-3	2.5
	5-7	2.5
	8	5.0

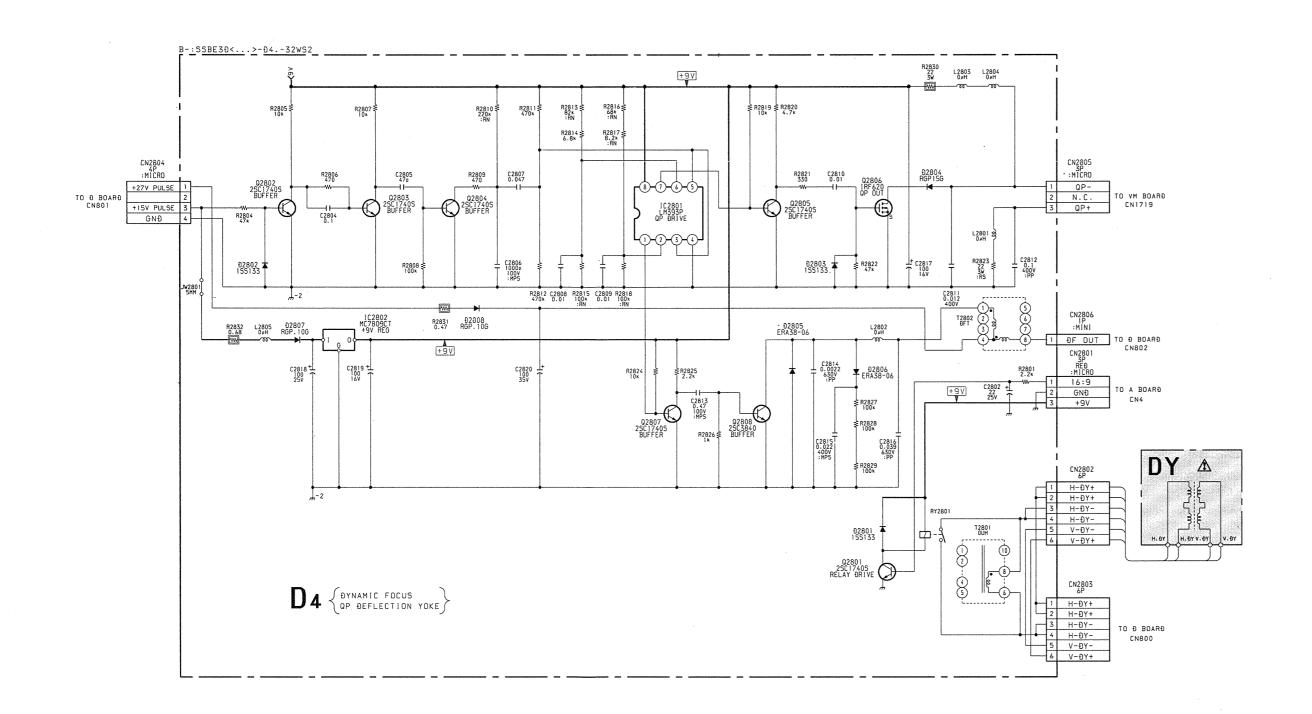




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A1 BOARD

	IC	TRAN	ISISTOR	
IC1201	B- 7	Q1201	B - 5	
IC1202	A - 6	D	ODE	
IC1203	B - 7	D1201	B - 4	
IC1204	A -7	D1203	C - 5	
IC1205	B - 8			
IC1206	A - 7			
IC1207	B - 1			



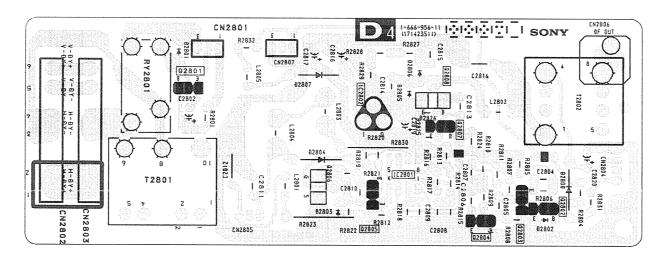
D4 BOARD IC VOLTAGE TABLE

	IC Voltage Table	9
Ref No	Pin No	Voltage (V)
	1	4.6
	2	6.2
IC2801	3	7.5
102001	4	-
	5	6.2
	6	4.3
	7	2.5

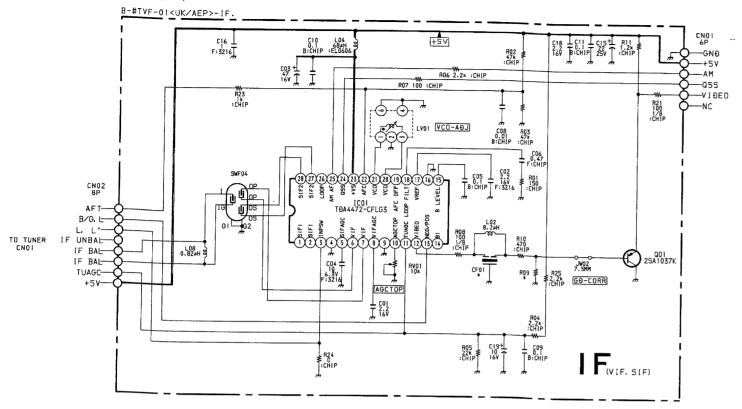
D4 BOARD TRANSISTOR VOLTAGE TABLE

ir	ansistor voit	age lable	
Ref No	(B) Base	(C) Collector	(E) Emitter
Q2801	2.4	8.7	1.8
Q2802	2.4	6.5	1.8
Q2803	133.4	52.0	133.8
Q2804	8.7	8.5	5.8
Q2805	0.8	52.0	0.5
Q2807	5.0	2.1	5.6
Q2808	5.4	8.0	4.7

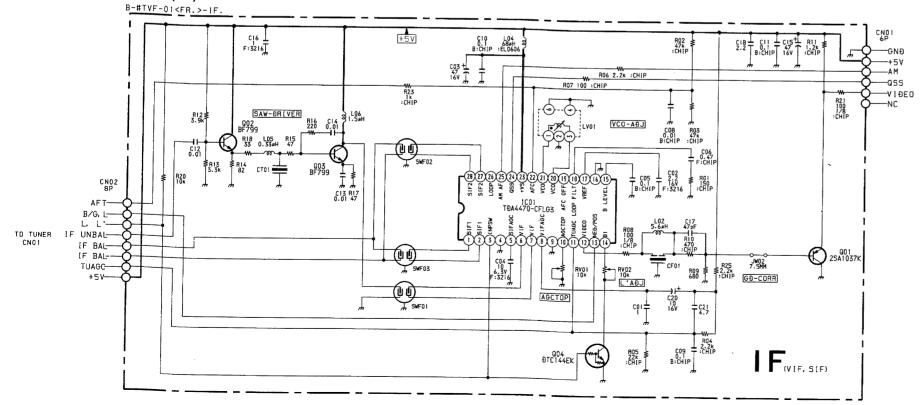
D4 Board



TUVIF (AEP) TUVIF (UK)

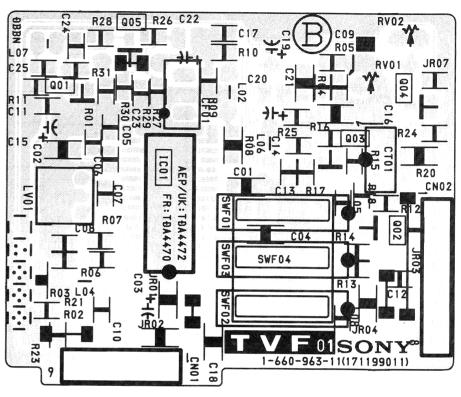




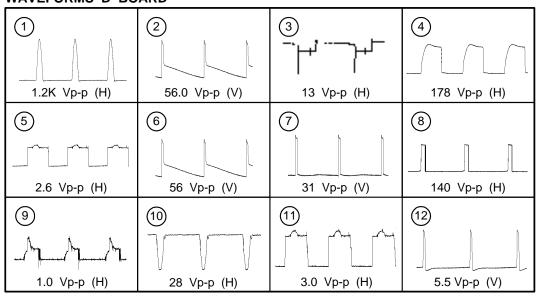




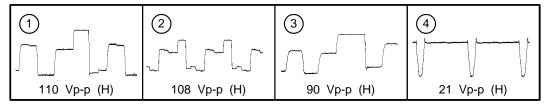
IF Board



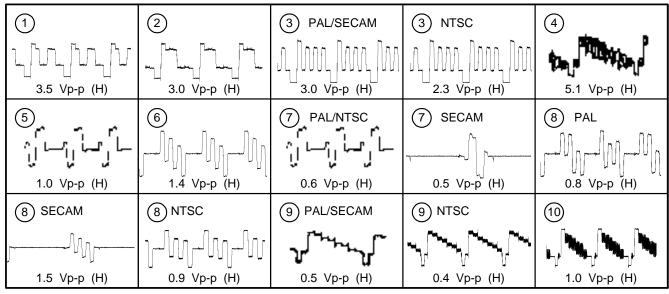
WAVEFORMS D BOARD



WAVEFORMS C BOARD

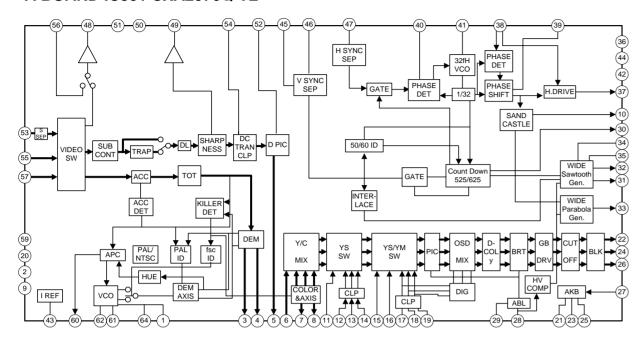


WAVEFORMS A BOARD



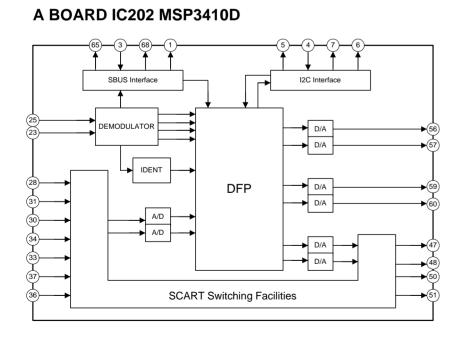
IC BLOCK DIAGRAMS

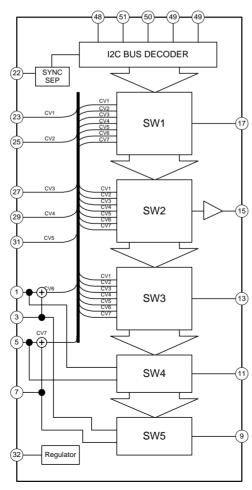
A BOARD IC301 CXA2076Q-TL



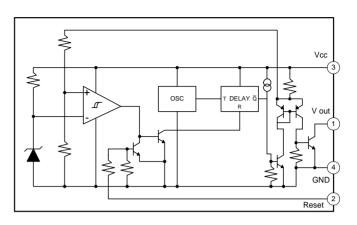
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A BOARD IC201 CXA2040AQ

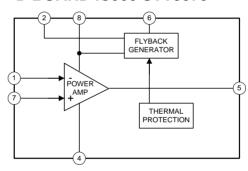




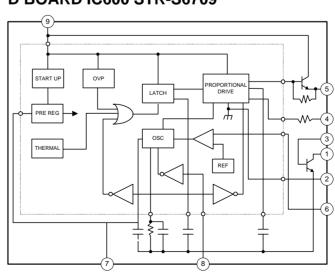
A BOARD IC4 PST593C



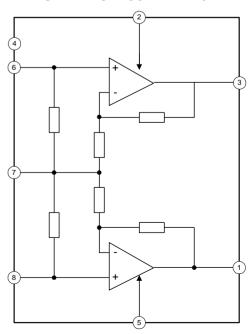
D BOARD IC500 STV9379



D BOARD IC600 STR-S6709

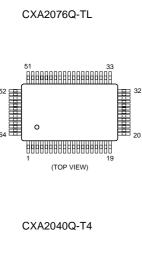


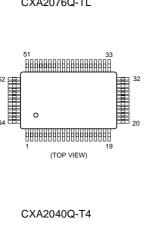
D BOARD IC1200 TDA7264

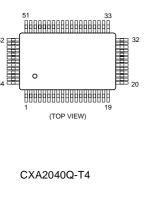


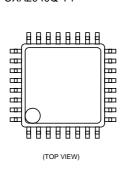
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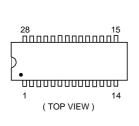
5-4 SEMICONDUCTORS



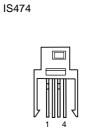




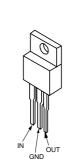




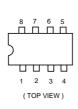
KM62256CLG-7



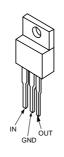
L4941BV







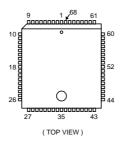
LM2940CT-5.0 LM2940CT LM2940T-9.0 MC7809CT



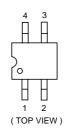
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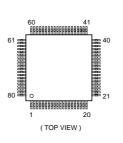
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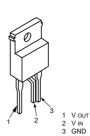
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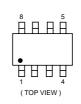


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SE135N

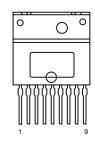




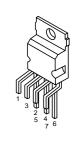
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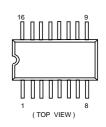
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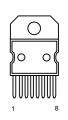
STV9379



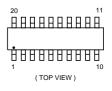
TDA4665T-T



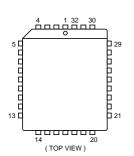
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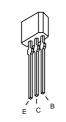
TDA8395T



TMS27PC020-15FMBE709



2SC2785-HFE



AU-01Z-V1 GP08D EG-1Z-V1

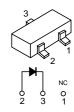
EL1Z

RGP02 RGP10GPKG23 EM1-V1 RGP15GPKG23 EU-1-V1 RU3YX-V1 FML-G12S RU4AM-T3

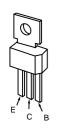
CATHODE

ANODE

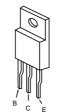
MA3030-H(TX)



BF871-127



2SA1837

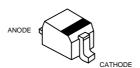


BAS216 1SS355 DTZ6.8C DTZ9.1

DTZ33B

MA8330

UDZ-TE-17-5.1B UDZ-TE-17-5.6B UDZ-TE-17-9.1B

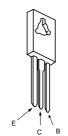


MTZJ-3.6A MTZJ-T77-22B MTZJ-3.9B MTZJ-39 MTZJ-5.1B RD3.9ESB2 RD5.1ESB2 MTZJ-5.6B RD5.6ESB2 MTZJ-6.2B MTZJ-6.8B RD6.2ESB2 RD6.8ESB2 MTJ-7.5C MTZJ-9.1 RD7.5ESB2 MTZJ-T-77-9.1B RD10ESB2 MTZJ-10B 1SS133T-77

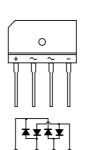
BF421L-AMMO JA101TP-Q 2SA933AS 2SA1091-O 2SC2808STP-R 2SC3502-E

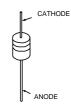


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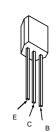


D4SB60L



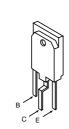


DTA144ES DTC114ES DTC143TS DTC144ES 2SC1740S-RT

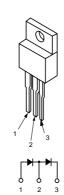


2SC4927-01

2SC4793



FMV-3FU



DTC114TK DTC144EK 2SA1037K 2SA1162-G 2SC2412K



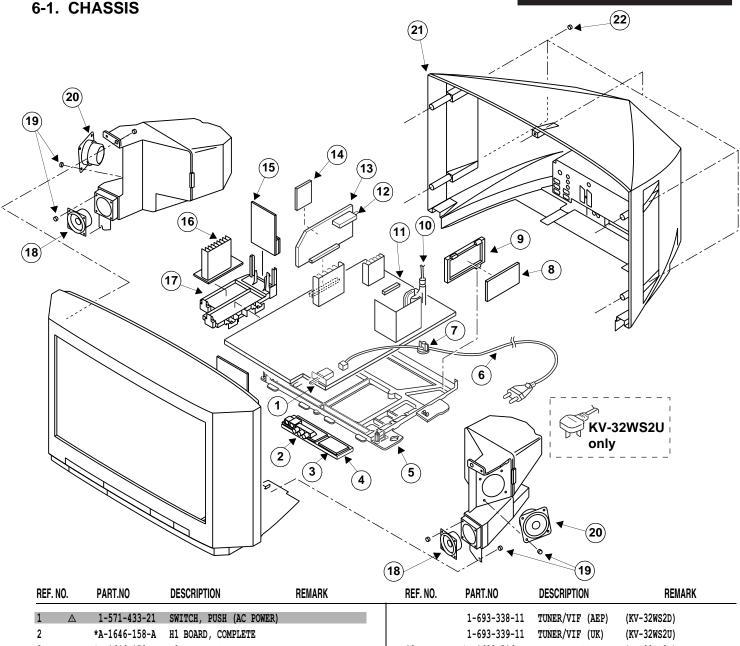
SECTION 6 EXPLODED VIEWS

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remarks column.

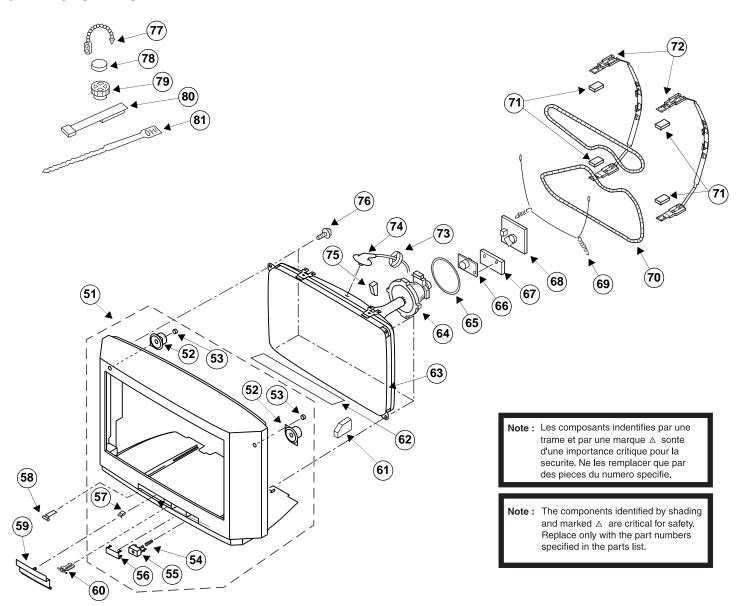
Items marked "* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items. Note: Les composants indentifies par une trame et par une marque △ sonte d'une importance critique pour la securite. Ne les remplacer que par des pieces du numero specifie.

Note: The components identified by shading and marked ∆ are critical for safety. Replace only with the part numbers specified in the parts list.



REF. NO	1	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
nLI . NC	J.	FARLING	DESCRIPTION	NLIMANN	nei . No.	FARILING	DESCRIPTION	NLWANN
1	Δ	1-571-433-21	SWITCH, PUSH (AC	POWER)		1-693-338-11	TUNER/VIF (AEP)	(KV-32WS2D)
2		*A-1646-158-A	H1 BOARD, COMPLET	E		1-693-339-11	TUNER/VIF (UK)	(KV-32WS2U)
3		*A-1646-159-A	H2 BOARD, COMPLET	E	13	*A-1632-516-A	A BOARD, COMPLETE	(KV-32WS2B)
4		*4-203-627-01	BRACKET, H			*A-1632-471-A	A BOARD, COMPLETE	(KV-32WS2D)
5		*4-203-315-01	BRACKET, MAIN			*A-1632-515-A	A BOARD, COMPLETE	(KV-32WS2U)
6	Δ	1-590-501-21	CORD, POWER (WITH	NOISE FILTER)	14	*A-1630-490-A	A1 BOARD, COMPLET	3
			(KV-	32WS2B/32WS2D)	15	*A-1651-088-A	J BOARD, COMPLETE	
	Δ	1-776-204-11	CORD, POWER (FILT	ER) (KV-32WS2U)	16	*A-1649-018-A	K1 BOARD, COMPLET	3
7		*4-202-531-01	AC CORD LOCK (SC)		17	*4-203-537-01	BRACKET, J-K-T	
8		*A-1640-284-A	D4 BOARD, COMPLET	E	18	1-505-154-11	SPEAKER (6.5CM)	
9		*4-203-752-01	BRACKET, D4		19	4-039-355-11	SCREW (4X12), (+)	BV TAPPING
10	Δ	1-453-269-11	TRANSFORMER ASSY,	FLYBACK (NX-4511/U2B4)	20	1-505-155-11	SPEAKER (10CM)	
11		*A-1642-231-A	D BOARD, COMPLETE		21	4-203-582-01	COVER, REAR	
12		1-693-340-11	TUNER/VIF (FR) (K	V-32WS2B)	22	4-039-358-01	SCREW (4X16), (+)	BV TAPPING

6-2. PICTURE TUBE



REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO		PART.NO	DESCRIPTION	REMARK
51	*A-1603-046-A	BEZNET ASSY 52-	57	67		*A-1644-082-A	VM BOARD, COMPLETE	
52	1-504-418-21	SPEAKER (5CM)		68		*A-1638-078-A	C BOARD, COMPLETE	
53	4-039-356-01	SCREW (3X12), (+) BV TAPP	ING	69		4-200-433-01	SPRING, EXTENSION	
54	4-202-964-01	SPRING		70	Δ	1-416-452-11	COIL, DEMAGNETIC	
55	4-203-581-01	BUTTON, POWER		71		*4-203-390-01	CUSHION DGC	
56	4-203-539-01	WINDOW ORNAMENTAL		72		*4-045-294-01	HOLDER, DGC	
57	4-047-464-01	CATCHER, PUSH		73		*4-203-022-01	HOLDER, HV	
58	4-045-250-01	DAMPER		74	Δ	1-251-528-21	CAP ASSY, HIGH-VOLT	AGE
59	4-203-542-11	DOOR, CONTROL		75		3-704-495-01	SPACER, DY	
60	4-202-555-01	SHAFT, DOOR		76		4-204-225-01	PT-SCREW	
61	*4-203-098-01	SUPPORTER, CRT		77		4-308-870-00	CLIP, LEAD WIRE	
62	4-203-128-11	SHEET, BLOTTING		78		1-452-032-00	MAGNET, DISK; 10MM	Ø
63 △	8-735-037-05	PICTURE TUBE (SD297) (W76L)	IT060X)	79		1-452-094-00	MAGNET, ROTATABLE D	ISK; 15MM Ø
64 <u>A</u>	8-451-492-11	DEFLECTION YOKE Y32C2A-M		80		X-4387-214-1	PERMALLOY ASSY, COR	RECTION
65	1-452-724-11	COIL, NA ROTATION (RT-165)		81		3-701-007-00	BAND, BINDING	
66	8-453-011-11	NECK ASSY (NA299-M)						

SECTION 7 ELECTRICAL PARTS LIST

Note: Les composants indentifies par une trame et par une marque △ sonte d'une importance critique pour la securite. Ne les remplacer que par des pieces du numero specifie.

Note: The components identified by shading and marked △ are critical for safety. Replace only with the part numbers specified in the parts list.

 Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- RESISTORS
- All resistors are in ohms.
- F: nonflammable.

When indicating parts by reference number, please include the board name.

CAPACITORS MF: mF, PF: mmF

COILS MMH: mH, uH

A1

											<u> </u>
REF. NO.	PART.NO	DESCRIPTION	ON		REMARK	 REF. NO.	PART.NO	DESCRIPT	TION		REMARK
	*A-1630-490-A	A1 BOARD, COM	MPLETE			C1233	1-126-967-11	ELECT	47MF	20%	16V
		******	****			C1236	1-126-967-11	ELECT	47MF	20%	16V
						C1237	1-163-038-00	CERAMIC CHI	0.1MF		25V
	< CAP	ACITOR >				C1238	1-163-038-00	CERAMIC CHI	0.1MF		25V
C1201	1-164-695-11	CERAMIC CHIP	0.0022MF	5%	50V		< CON	NECTOR >			
C1202	1-163-038-00	CERAMIC CHIP	0.1MF		25V						
C1203	1-163-038-00	CERAMIC CHIP	0.1MF		25V	CN1202	1-766-929-11	CONNECTOR, 1	BOARD TO BOA	RD 8P	
C1204	1-163-038-00	CERAMIC CHIP	0.1MF		25V	CN1203	1-766-929-11	CONNECTOR, 1	BOARD TO BOA	RD 8P	
C1205	1-163-038-00	CERAMIC CHIP	0.1MF		25V	CN1204	*1-564-519-11	PLUG, CONNE	CTOR 4P		
C1206	1-163-038-00	CERAMIC CHIP	0.1MF		25V		< DIO	DE >			
C1207	1-163-038-00	CERAMIC CHIP	0.1MF		25V						
C1208	1-163-038-00	CERAMIC CHIP	0.1MF		25V	D1201	8-719-988-62	DIODE 1SS35	5		
C1209	1-163-038-00	CERAMIC CHIP	0.1MF		25V	D1203	8-719-976-99	DIODE DTZ5.	LB		
C1210	1-163-038-00	CERAMIC CHIP	0.1MF		25V						
							< IC	>			
C1211		CERAMIC CHIP	0.1MF		25V						
C1212	1-126-933-11		100MF	20%	16V	IC1201	8-759-377-62				
C1213	1-164-700-11	CERAMIC CHIP	0.68MF		16V	IC1202	8-759-527-14	IC KM62256D	LG-7T		
C1215	1-126-967-11	ELECT	47MF	20%	16V	IC1203	8-759-384-64		•		
C1216	1-163-038-00	CERAMIC CHIP	0.1MF		25V	IC1204	8-759-384-64	IC TDA1387T	/N1/T3		
						IC1205	8-759-387-76	IC TL072CDR			
C1217	1-163-038-00	CERAMIC CHIP	0.1MF		25V						
C1218	1-126-964-11		10MF	20%	50V	IC1206	8-759-387-76				
C1219	1-126-967-11	ELECT	47MF	20%	16V	IC1207	8-759-991-41	IC LM78L05A	CZ		
C1220		CERAMIC CHIP		5%	50V						
C1221	1-163-145-00	CERAMIC CHIP	0.0015MF	5%	50V		< COI	L >			
C1222		CERAMIC CHIP			25V	L1204	1-216-295-00		0		
C1223	1-126-967-11		47MF	20%	16V	L1205	1-216-295-00		0		
C1224	1-126-967-11		47MF	20%	16V	L1206	1-216-295-00		0		
C1225		CERAMIC CHIP			25V	L1207	1-410-989-11				
C1226	1-163-038-00	CERAMIC CHIP	0.1MF		25V	L1208	1-216-295-00	SHORT	0		
C1227	1-126-964-11		10MF	20%	50V	L1209	1-216-295-00		0		
C1228		CERAMIC CHIP		5%	50V	L1210	1-216-295-00		0		
C1229		CERAMIC CHIP		5%	50V	L1211	1-216-295-00		0		
C1230		CERAMIC CHIP			25V	L1212	1-216-295-00		0		
C1231	1-126-967-11	ELECT	47MF	20%	16V	L1213	1-410-989-11	INDUCTOR CH	IP 0.47UH		
1232	1-163-038-00	CERAMIC CHIP	0 1MF		25V	L1220	1-410-989-11	דאווונידיסופ כיווי	rp		

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REF. NO.	PART.NO	DESCRIPTION	ON	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
L1221	1-410-989-11	INDUCTOR CHIE	0.47UH			*A-1632-516-A	A BOARD, COMPLETE (KV	-32WS2B)
	< TRA	NSISTOR >				*A-1632-471-A	A BOARD, COMPLETE (KV	-32WS2D)
21201	8-729-027-44	TRANSISTOR D	C114TKA-T	146		*A-1632-515-A	A BOARD, COMPLETE (KV	-32WS2U)
	< RES	ISTOR >						
D1000	1 016 005 00	DEG GUID	100 F0	1 /1 017		1-750-797-11	SOCKET, PLCC	
R1202	1-216-025-00	•	100 5%	•		. O.T	NACTEOD \	
R1204	1-216-025-00	•	100 5%	· ·		< CAF	ACITOR >	
R1205	1-216-025-00	•	100 5%	· ·	21	1 162 020 00	CERANTO CUITA A 1ME	0517
R1206	1-216-065-00	•	4.7K 5%		C1		CERAMIC CHIP 0.1MF	25V
R1207	1-216-073-00	RES, CHIP	10K 5%	1/10W	C2	1-126-967-11		20% 16V
21000	1 016 072 00	DEG GUED	1077 50	1 /1 000	C3		CERAMIC CHIP 30PF	5% 50V
R1208	1-216-073-00	•	10K 5%	•	C4		CERAMIC CHIP 30PF	5% 50V
R1209	1-216-073-00		10K 5%	· ·	C8	1-103-038-00	CERAMIC CHIP 0.1MF	25V
R1210	1-216-073-00		10K 5%	· ·		1 044 050 00	DBG GUTP 10	P0 4/40
R1211	1-216-073-00	'	10K 5%	· ·	C10	1-216-073-00	•	5% 1/10W
R1212	1-216-073-00	RES, CHIP	10K 5%	1/10W	C14		CERAMIC CHIP 0.1MF	25V
	4 044 055 15		4.0	4 /4 0	C15		CERAMIC CHIP 0.0022MF	5% 50V
R1213	1-216-073-00	•	10K 5%	•	C18		CERAMIC CHIP 0.1MF	25V
R1214	1-216-081-00	•	22K 5%	· ·	C19	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
R1215	1-216-081-00	•	22K 5%	1/10W				
R1216	1-216-295-00		0		C20		CERAMIC CHIP 0.01MF	10% 50V
R1217	1-216-295-00	SHORT	0		C21		CERAMIC CHIP 0.01MF	10% 50V
					C22		CERAMIC CHIP 100PF	5% 50V
R1218	1-216-295-00		0		C24		CERAMIC CHIP 0.001MF	5% 50V
R1219	1-216-295-00		0		C45	1-163-038-00	CERAMIC CHIP 0.1MF	25V
R1220	1-216-001-00	•	10 5%	· ·				
R1221	1-216-065-00		4.7K 5%	· ·	C80		CERAMIC CHIP 100PF	5% 50V
R1222	1-216-065-00	RES,CHIP	4.7K 5%	1/10W	C81	1-126-959-11		20% 50V
					C82		CERAMIC CHIP 0.022MF	10% 50V
R1223	1-216-063-91	·	3.9K 5%		C90		CERAMIC CHIP 0.1MF	25V
R1224	1-216-061-00	•	3.3K 5%	· ·	C101	1-163-038-00	CERAMIC CHIP 0.1MF	25V
R1225	1-216-025-00	'	100 5%	•				
R1226	1-216-061-00	•	3.3K 5%		C102	1-126-934-11	ELECT 220MF	20% 16V
R1227	1-216-063-91	RES,CHIP	3.9K 5%	1/10W	C103	1-126-965-11		20% 50V
					C104	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
R1228	1-216-025-00		100 5%	•	C110	1-126-967-11		20% 16V
R1229	1-216-001-00	'	10 5%	· ·	C112	1-163-141-00	CERAMIC CHIP 0.001MF	5% 50V
R1230	1-216-063-91		3.9K 5%	· ·				
R1231	1-216-061-00	'	3.3K 5%		C113	1-126-967-11	ELECT 47MF	20% 16V
R1232	1-216-025-00	RES, CHIP	100 5%	1/10W	C120	1-163-117-00	CERAMIC CHIP 100PF	5% 50V
					C121	1-163-113-00	CERAMIC CHIP 68PF	5% 50V
R1233	1-216-061-00	RES, CHIP	3.3K 5%	1/10W	C122	1-163-137-00	CERAMIC CHIP 680PF	5% 50V
R1234	1-216-063-91	RES, CHIP	3.9K 5%	1/10W	C123	1-163-113-00	CERAMIC CHIP 68PF	5% 50V
R1235	1-216-025-00	RES, CHIP	100 5%	1/10W				
1236	1-216-025-00	RES, CHIP	100 5%	1/10W	C124	1-163-038-00	CERAMIC CHIP 0.1MF	25V
R1237	1-216-025-00	RES, CHIP	100 5%	1/10W	C144	1-163-038-71	CERAMIC CHIP 0.1MF	25V
					C201	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
R1238	1-216-025-00	RES, CHIP	100 5%	1/10W	C202		CERAMIC CHIP 0.1MF	10% 25V
R1239	1-216-025-00	•	100 5%		C203	1-104-661-91		20% 16V
R1240	1-216-295-00	·	0					
					C204	1-163-038-00	CERAMIC CHIP 0.1MF	25V
					1			
					C205	1-126-965-11	ELECT 22MF	20% 50V



REF. NO.	PART.NO	DESCRIPTI	ON	R	EMARK	REF. NO.	PART.NO	DESCRIPTION	ON		REMARK	
C208	1-126-964-11	ELECT	10MF	20%	50V	C268	1-163-038-00	CERAMIC CHIP	0.1MF		25V	_
C209	1-126-964-11	ELECT	10MF	20%	50V	C269	1-163-131-00	CERAMIC CHIP	390PF	5%	50V	
C210	1-216-295-00	SHORT	0			C270	1-163-131-00	CERAMIC CHIP	390PF	5%	50V	
C211	1-126-964-11	ELECT	10MF	20%	50V	C271	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V	
C212	1-164-346-11	CERAMIC CHIP	1MF		16V	C272	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V	
C213	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	C273	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V	
C214	1-164-346-11	CERAMIC CHIP			16V	C274	1-163-141-00	CERAMIC CHIP		5%	50V	
C215	1-163-133-00	CERAMIC CHIP		5%	50V	C275	1-164-346-11				16V	
C216	1-126-967-11	ELECT	47MF	20%	16V	C276	1-164-346-11				16V	
C217		CERAMIC CHIP		10%	50V	C277		CERAMIC CHIP			16V	
C218	1-126-967-11	RT.RCT	47MF	20%	16V	C278	1-164-346-11	CERAMIC CHIP	1MF		16V	
C219	1-164-232-11	CERAMIC CHIP		10%	50V	C279	1-126-965-11		22MF	20%	50V	
C219	1-126-964-11		10MF	20%	50V	C280	1-163-038-00	CERAMIC CHIP		200	25V	
C221	1-164-505-11			200	16V	C281	1-126-965-11		22MF	20%	50V	
C221		CERAMIC CHIP			16V	C281	1-163-038-00	CERAMIC CHIP		200	25V	
C222	1-104-340-11	CERAMIC CHIP	IMP		100	C282	1-163-036-00	CERAMIC CHIP	U.IMF		237	
C223	1-163-133-00	CERAMIC CHIP		5%	50V	C300	1-163-109-00	CERAMIC CHIP		5%	50V	
C224	1-164-346-11	CERAMIC CHIP			16V	C301	1-163-038-00	CERAMIC CHIP			25V	
C225	1-163-133-00	CERAMIC CHIP		5%	50V	C302	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V	
C226	1-126-967-11	ELECT	47MF	20%	16V	C303	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V	
C227	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	C304	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C228	1-126-967-11	ELECT	47MF	20%	16V	C305	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C229	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	C306	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	
C230	1-216-295-00	SHORT	0			C307	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	
C231	1-163-038-00	CERAMIC CHIP	0.1MF		25V	C308	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	
C232	1-126-962-11	ELECT	3.3MF	20%	50V	C309	1-164-346-11	CERAMIC CHIP	1MF		16V	
C233	1-126-967-11	ELECT	47MF	20%	16V	C310	1-164-346-11	CERAMIC CHIP	1MF		16V	
C238	1-126-967-11	ELECT	47MF	20%	16V	C311	1-164-346-11	CERAMIC CHIP	1MF		16V	
C239	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V	C312	1-164-505-11	CERAMIC CHIP	2.2MF		16V	
C240	1-164-346-11	CERAMIC CHIP	1MF		16V	C313	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V	
C241	1-164-346-11	CERAMIC CHIP	1MF		16V	C315	1-216-295-00	SHORT	0			
C251	1-163-087-00	CERAMIC CHIP	4PF	0.25PF	50V	C317	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C252	1-163-087-00			0.25PF		C319		CERAMIC CHIP		10%	50V	
C253	1-163-117-00			5%	50V	C320	1-126-965-11		22MF	20%	50V	
C254	1-163-109-00			5%	50V	C321		CERAMIC CHIP		10%	50V	
C255	1-163-117-00			5%	50V	C322		CERAMIC CHIP		10%	50V	
C256	1-163-038-00	רעים אור רעודם	0 1MF		25V	C323	1-163-037-11	CERAMIC CHIP	በ በ22MF	10%	50V	
C257	1-126-965-11		22MF	20%	50V	C324		CERAMIC CHIP		10%	50V	
C257	1-126-964-11		10MF	20%	50V	C325		CERAMIC CHIP		100	16V	
C256	1-120-904-11			200	25V	C325		CERAMIC CHIP		5%	50V	
C259	1-163-038-00				25V 25V	C326	1-163-141-00		0.001MF	5% 5%	50V 50V	
C261	1-163-133-00			5% E0.	50V	C328	1-126-964-11		10MF	20%	50V	
C262	1-163-133-00			5%	50V	C329		CERAMIC CHIP		10%	50V	
C263	1-163-038-00			000	25V	C330	1-137-581-11		0.1MF	5% = °	100V	
C264	1-126-962-11		3.3MF	20%	50V	C331	1-137-581-11		0.1MF	5%	100V	
C265	1-126-964-11	ELECT	10MF	20%	50V	C332	1-164-232-11	CERAMIC CHIP	U.U1MF	10%	50V	
C266	1-126-964-11	ELECT	10MF	20%	50V	C333	1-126-933-11	ELECT	100MF	20%	16V	
C267	1-126-965-11	ELECT	22MF	20%	50V	C334	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	



1-163-009-11 CERNATIC CHIP 0.010MF 10% 50V 10% 50V 1-163-009-11 CERNATIC CHIP 0.010MF 10% 50V 10% 50V 10% 50V 1-164-232-11 CERNATIC CHIP 0.01MF 10% 50V 10% 50V 10% 1-164-232-11 CERNATIC CHIP 0.01MF 10% 50V 10% 8-719-988-62 DIODE 183355 1-164-232-11 CERNATIC CHIP 1.00MF 20% 16V 10% 50V 10% 8-719-988-62 DIODE 183355 1-164-005-11 CERNATIC CHIP 0.04TMF 10% 50V 10% 8-719-97-22 DIODE DT23.88 1-163-017-00 CERNATIC CHIP 0.04TMF 10% 50V 10% 8-719-97-22 DIODE DT23.88 1-163-017-00 CERNATIC CHIP 0.04TMF 10% 50V 10% 8-719-97-22 DIODE DT29.1 1-164-004-11 CERNATIC CHIP 0.0MF 20% 50V 100% 8-719-97-22 DIODE DT29.1 1-164-005-11 CERNATIC CHIP 0.0MF 20% 50V 10% 8-719-97-22 DIODE DT29.1 1-164-005-11 CERNATIC CHIP 0.0TMF 25% 50V 100% 8-719-97-22 DIODE DT29.1 1-164-005-11 CERNATIC CHIP 0.0TMF 25% 50V 100% 8-719-97-22 DIODE DT29.1 1-164-005-11 CERNATIC CHIP 0.0TMF 25% 50V 10% 8-719-97-22 DIODE DT29.1 1-164-005-11 CERNATIC CHIP 0.0TMF 25% 50V 10% 8-719-97-22 DIODE DT29.1 1-164-005-11 CERNATIC CHIP 0.0TMF 25% 50V 10% 8-719-97-22 DIODE DT29.1 1-164-005-11 CERNATIC CHIP 0.0TMF 25% 50V 10% 8-719-97-22 DIODE DT29.1 1-164-005-11 CERNATIC CHIP 0.0TMF 25% 50V 10% 8-719-97-22 DIODE DT29.1 1-164-005-11 CERNATIC CHIP 0.0TMF 25% 50V 10% 8-719-97-22 DIODE DT29.1 1-164-005-11 CERNATIC CHIP 0.0TMF 25% 50V 10% 8-719-97-22 DIODE DT29.1 1-164-005-11 CERNATIC CHIP 0.0TMF 25% 50V 10% 8-719-97-22 DIODE DT29.1 1-164-005-11 CERNATIC CHIP 0.0TMF 25% 50V 10% 8-719-97-22 DIODE DT29.1 1-164-005-11 CERNATIC CHIP 0.0TMF 25% 50V 10% 8-719-97-22 DIODE DT29.1 1-164-005-11 CERNATIC CHIP 0.0TMF 25% 50V 10% 8-719-97-22 DIODE DT29.1 1-164-005-11 CERNATIC CHIP 0.0TMF 10% 50V 10% 8-719-97-22 DIODE DT29.1 1-164-005-11 CERNATIC CHIP 0.0T	REF. NO.	PART.NO	DESCRIPTION		REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK
1-15-09-11 CERMIC CHIP 0.01MT 10 50V 10 10 10 50V 10 10 10 10 10 10 10	C335	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	CN203	1-766-928-11	CONNECTOR, BOARD TO BOAR	RD 8P
1-1636-11 CEAMIC CEIP OLDER 104 507	C336	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V	CN301	*1-568-882-51	PIN, CONNECTOR 7P	
1-16-22-11 CERMIC CHIP 0.01MT 10% 50V	C337	1-163-009-11	CERAMIC CHIP 0.001MF	10%	50V				
202 3-713-988-42 DIDOR 153535 C341 1-164-05-11 CERMIC CEIP 0.47MF 259 DIOR 153536	C338	1-164-346-11	CERAMIC CHIP 1MF		16V		< DIC	DDE >	
1-126-933-11 SIRCT 100MF 20% 16V 16	C339	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V				
C341 1-164-05-11 C2MMIC CRIP 0.007MF 10% 50V 1020 8-719-977-22 1000E DT29.1 1 1 1 1 1 1 1 1 1						D2	8-719-988-62	DIODE 1SS355	
1-64-346-11 CRAMIC CRIP 100PF 16	C340	1-126-933-11	ELECT 100MF	20%	16V	D16	8-719-988-62	DIODE 1SS355	
1-163-117-00 CREANIC CRIF 0.047NF 10% 50V 10% 50V 10.03 1-164-017-10 CREANIC CRIF 100FF 5% 50V 10.03 8-719-977-22 10.00E 0729.1 1.04-017-10 1.04	C341	1-164-005-11	CERAMIC CHIP 0.47MF		25V	D101	8-719-977-81	DIODE DTZ33B	
C344	C342	1-164-346-11	CERAMIC CHIP 1MF		16V	D201	8-719-977-22	DIODE DTZ9.1	
1-164-004-11 CERMIC CHIP 0.1MF	C343	1-163-017-00	CERAMIC CHIP 0.0047MF	10%	50V	D202	8-719-977-22	DIODE DTZ9.1	
	C344	1-163-117-00	CERAMIC CHIP 100PF	5%	50V				
Carrier 1-163-133-0 CERAMIC CHIP 470PF 5% 50V D208 8-719-977-22 D100E D729.1						D203	8-719-977-22	DIODE DTZ9.1	
1-126-964-11 ERRANIC CHIP 10.47MF	C347	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	D206	8-719-977-22	DIODE DTZ9.1	
	C348	1-163-133-00	CERAMIC CHIP 470PF	5%	50V	D207	8-719-977-22	DIODE DTZ9.1	
1-164-005-11 CERAMIC CHIP 0.47MF 25V D210 8-713-977-22 D100E DT29.1 CERAMIC CHIP 0.47MF 25V D211 8-713-977-22 D100E DT29.1 CERAMIC CHIP 0.47MF 25V D214 8-713-977-22 D100E DT29.1 CERAMIC CHIP 0.47MF 25V D215 8-713-977-22 D100E DT29.1 CERAMIC CHIP 0.47MF 5% 50V D215 8-713-158-15 D100E DT29.1 CERAMIC CHIP 0.47MF 25V D216 8-713-158-15 D100E DT29.1 CERAMIC CHIP 0.47MF 25V D218 8-713-158-15 D100E DT29.1 CERAMIC CHIP 15FF 5% 50V D226 8-713-158-15 D100E DT29.1 CERAMIC CHIP 15FF 5% 50V D220 8-713-988-62 D100E DT29.1 CERAMIC CHIP 15FF 5% 50V D220 8-713-988-62 D100E DT29.1 CERAMIC CHIP 15FF 5% 50V D220 8-713-988-62 D100E DT29.1 CERAMIC CHIP 15FF 5% 50V D220 8-713-977-22 D100E DT29.1 CERAMIC CHIP 15FF 5% 50V D220 8-713-977-22 D100E DT29.1 CERAMIC CHIP 0.47MF D8-28728/32MS2D) D228 B-713-977-22 D100E DT29.1 CERAMIC CHIP 0.47MF D8-28728/32MS2D) D8-28728	C350	1-126-964-11	ELECT 10MF	20%	50V	D208	8-719-977-22	DIODE DTZ9.1	
D210	C351	1-164-505-11	CERAMIC CHIP 2.2MF		16V	D209	8-719-977-22	DIODE DTZ9.1	
1-164-505-11 CERAMIC CHIP 2.2MF	C352	1-164-005-11	CERAMIC CHIP 0.47MF		25V				
1-164-005-11 CERMIC CHIP 0.47MF 25V D214 8-719-977-22 D100E DT29.1						D210	8-719-977-22	DIODE DTZ9.1	
C355	C353	1-164-505-11	CERAMIC CHIP 2.2MF		16V	D211	8-719-977-22	DIODE DTZ9.1	
1-164-232-11 CERAMIC CHIP 0.01MF 10% 50V D216 8-719-158-15 D100E RD5.6S-B	C354	1-164-005-11	CERAMIC CHIP 0.47MF		25V	D214	8-719-977-22	DIODE DTZ9.1	
1-163-133-00 CERAMIC CHIP 470PF 5% 50V D218 8-719-158-15 DIODE RD5.68-B D217 8-719-158-15 DIODE RD5.68-B D218 8-719-158-15 DIODE RD5.68-B D218 8-719-158-15 DIODE RD5.68-B D228 D228 D229 R-719-988-62 DIODE 183355 DIODE RD5.68-B D229 R-719-988-62 DIODE D729.1 D229 R-719-977-22 D2	C355	1-126-965-11	ELECT 22MF	20%	50V	D215	8-719-977-22	DIODE DTZ9.1	
D217	C356	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V	D216	8-719-158-15	DIODE RD5.6S-B	
C358	C357	1-163-133-00	CERAMIC CHIP 470PF	5%	50V				
1-163-231-11 CERAMIC CHIP 15PF 5% 50V D220 8-719-988-62 D10DE 1S3355						D217	8-719-158-15	DIODE RD5.6S-B	
1-163-231-11 CERAMIC CHIP 15PF 5% 50V D220 8-719-988-62 D10DE 1S3355	C358	1-164-005-11	CERAMIC CHIP 0.47MF		25V	D218	8-719-158-15	DIODE RD5.6S-B	
C360		1-163-231-11	CERAMIC CHIP 15PF	5%		D220	8-719-988-62	DIODE 1SS355	
1-164-505-11 CERAMIC CHIP 2.2MF		1-163-231-11	CERAMIC CHIP 15PF	5%		D221	8-719-988-62	DIODE 1SS355	
C371	C370	1-164-505-11	CERAMIC CHIP 2.2MF			D222	8-719-977-22	DIODE DTZ9.1	
D223				(KV-	-32WS2B/32WS2D)				
C372				·	•	D223	8-719-977-22	DIODE DTZ9.1	
C372	C371	1-163-141-00	CERAMIC CHIP 0.001MF	5%	50V	D224	8-719-977-22	DIODE DTZ9.1	
C373		1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V	D225	8-719-977-22	DIODE DTZ9.1	
Caramic Chip Cara				(KV-	-32WS2B/32WS2D)	D226	8-719-977-22	DIODE DTZ9.1	
D251	C373	1-164-489-11	CERAMIC CHIP 0.22MF			D227	8-719-977-13	DIODE DTZ6.8C	
D251				(KV-	-32WS2B/32WS2D)				
C1002 1-163-235-11 CERAMIC CHIP 22PF 5% 50V D320 8-719-977-22 DIODE DTZ9.1 C1010 1-163-038-00 CERAMIC CHIP 0.1MF 25V D370 8-719-047-16 DIODE BAS216 (KV-32WS2B/32WS2D) C1013 1-126-965-11 ELECT 22MF 20% 50V D1010 8-719-036-58 DIODE MA3030-H(TX) C1014 1-163-038-00 CERAMIC CHIP 0.1MF 25V C1015 1-164-489-11 CERAMIC CHIP 0.22MF 10% 16V C1020 1-163-101-00 CERAMIC CHIP 22PF 5% 50V C1015 1-409-327-00 TRAP, CERAMIC (6.5MHZ) (KV-32WS2B/32WS2D) CF1LTER > CF1LTER > FL101 1-236-071-11 ENCAPSULATED COMPONENT FL201 1-236-071-11 ENCAPSULATED COMPONENT FL201 1-236-071-11 ENCAPSULATED COMPONENT FL203 1-236-071-11 ENCAPSULATE				·	•	D251	8-719-047-16	DIODE BAS216	
C1010 1-163-038-00 CERAMIC CHIP 0.1MF 25V D1010 8-719-047-16 DIODE BAS216 (KV-32WS2B/32WS2D) C1013 1-126-965-11 ELECT 22MF 20% 50V D1010 8-719-036-58 DIODE MA3030-H(TX) C1014 1-163-038-00 CERAMIC CHIP 0.1MF 25V C1015 1-164-489-11 CERAMIC CHIP 0.2MF 10% 16V C1020 1-163-101-00 CERAMIC CHIP 22PF 5% 50V	C1001	1-163-235-11	CERAMIC CHIP 22PF	5%	50V	D302	8-719-988-62	DIODE 1SS355	
C1010 1-163-038-00 CERAMIC CHIP 0.1MF 25V D1010 8-719-047-16 DIODE BAS216 (KV-32WS2B/32WS2D) C1013 1-126-965-11 ELECT 22MF 20% 50V D1010 8-719-036-58 DIODE MA3030-H(TX) C1014 1-163-038-00 CERAMIC CHIP 0.1MF 25V C1015 1-164-489-11 CERAMIC CHIP 0.2MF 10% 16V C1020 1-163-101-00 CERAMIC CHIP 22PF 5% 50V	C1002	1-163-235-11	CERAMIC CHIP 22PF	5%	50V	D320	8-719-977-22	DIODE DTZ9.1	
C1013 1-126-965-11 ELECT 22MF 20% 50V D1010 8-719-036-58 DIODE MA3030-H (TX) C1014 1-163-038-00 CERAMIC CHIP 0.1MF 25V D1012 1-163-125-00 CERAMIC CHIP 220FF 5% 50V C1015 1-164-489-11 CERAMIC CHIP 2.2MF 10% 16V C1020 1-163-101-00 CERAMIC CHIP 22PF 5% 50V	C1010				25V	D370	8-719-047-16	DIODE BAS216	(KV-32WS2B/32WS2D)
C1014 1-163-038-00 CERAMIC CHIP 0.1MF 25V C1015 1-164-489-11 CERAMIC CHIP 0.2MF 10% 16V C1020 1-163-101-00 CERAMIC CHIP 22PF 5% 50V CFILTER > CF120 1-409-327-00 TRAP, CERAMIC (6.5MHZ) (KV-32WS2B/32WS2D) CN21 1-695-302-11 CONNECTOR, BOARD TO BOARD 50P CN2 *1-564-508-11 PLUG, CONNECTOR 5P CN4 1-568-878-51 PIN, CONNECTOR, DUAL SCART C101 1-63-103-00 CERAMIC CHIP 22PF 5% 50V CD101 1-163-125-00 CERAMIC CHIP 220PF 5% 50V CN1 1-63-101-00 CERAMIC CHIP 0.2MF 10% 16V CN2 *1-564-508-11 PLUG, CONNECTOR 5P CN3 1-568-878-51 PIN, CONNECTOR 3P CN4 1-568-878-51 CONNECTOR, DUAL SCART CN5 1 C SDA5250M-C5-GEG (KV-32WS2B) CN6 1 C SDA5250M-C5-GEG (KV-32WS2B) CN7 20 CN7 20 CERAMIC CHIP 220PF 5% 50V CN6 20 CRAMIC CHIP 220PF 5% 50V CN6 20 CRAMIC CHIP 220PF 5% 50V CN6 20 CRAMIC CHIP 220PF 5% 50V CERAMIC CHIP 220PF 10% 10 CERAMIC CHIP 220PF 5% 50V CERAMIC CHIP 220PF 10% 10 CERAMIC CHIP 220PF 10% 10 CERAMIC CHIP 220PF 10% 10 CERAMIC CHIP 220PF 10% 10 CERAMIC CHIP 220PF 10% 10 CERAMIC CHIP 220PF 10% 10 CERAMIC CHIP 220PF 10% 10 CERAMIC CHIP 220PF 10% 10 CERAMIC CHIP 220PF 10% 10 CERAMIC CHIP 220PF 10% 10 CERAMIC CHIP 220PF 10 CERAMIC CHIP 220PF 10 CERAMIC CHIP 220PF 10 CERAMIC CHIP 220PF 10 CERAMIC CHIP 220PF 10 CERAMIC CHIP 220PF 10 CERAMIC CHIP 220PF 10 CERAMIC CHIP 220PF		1-126-965-11	ELECT 22MF	20%		D1010	8-719-036-58	DIODE MA3030-H(TX)	, , ,
D1012 1-163-125-00 CERAMIC CHIP 220FF 5% 50V C1015 1-164-489-11 CERAMIC CHIP 0.22MF 10% 16V C1020 1-163-101-00 CERAMIC CHIP 22PF 5% 50V		1-163-038-00						, , ,	
C1015 1-164-489-11 CERAMIC CHIP 0.22MF 10% 16V C1020 1-163-101-00 CERAMIC CHIP 22PF 5% 50V < ENCAPSULATED FILTER >						D1012	1-163-125-00	CERAMIC CHIP 220PF	5% 50V
C1020 1-163-101-00 CERAMIC CHIP 22PF 5% 50V < ENCAPSULATED FILTER >	C1015	1-164-489-11	CERAMIC CHIP 0.22MF	10%	16V				
<pre></pre>	C1020						< ENC	CAPSULATED FILTER >	
FL201									
FL201		< FII	TER >			FL101	1-236-071-11	ENCAPSULATED COMPONENT	
CF120 1-409-327-00 TRAP, CERAMIC (6.5MHZ) (KV-32WS2B/32WS2D) FL202 1-236-071-11 ENCAPSULATED COMPONENT FL203 1-236-071-11 ENCAPSULATED COMPONENT FL1001 1-236-071-11 ENCAPSULATED COMPONENT CN1 1-695-302-11 CONNECTOR, BOARD TO BOARD 50P									
FL203 1-236-071-11 ENCAPSULATED COMPONENT CN1 1-695-302-11 CONNECTOR, BOARD TO BOARD 50P CN2 *1-564-508-11 PLUG, CONNECTOR 5P CN4 1-568-878-51 PIN, CONNECTOR 3P CN201 1-766-296-11 CONNECTOR, DUAL SCART FL203 1-236-071-11 ENCAPSULATED COMPONENT C IC > C IC	CF120	1-409-327-00	TRAP. CERAMIC (6.5MHZ)	(KV-	-32WS2B/32WS2D)				
CN1 1-695-302-11 CONNECTOR, BOARD TO BOARD 50P				(00, 00,				
CN1 1-695-302-11 CONNECTOR, BOARD TO BOARD 50P		< CON	INECTOR >						
CN2 *1-564-508-11 PLUG, CONNECTOR 5P CN4 1-568-878-51 PIN, CONNECTOR 3P CN201 1-766-296-11 CONNECTOR, DUAL SCART IC1 8-759-376-77 IC SDA30C263-GEG (KV-32WS2B/32WS2U) 8-759-376-75 IC SDA5250M-C5-GEG (KV-32WS2D)		. 001							
CN2 *1-564-508-11 PLUG, CONNECTOR 5P CN4 1-568-878-51 PIN, CONNECTOR 3P CN201 1-766-296-11 CONNECTOR, DUAL SCART IC1 8-759-376-77 IC SDA30C263-GEG (KV-32WS2B/32WS2U) 8-759-376-75 IC SDA5250M-C5-GEG (KV-32WS2D)	CN1	1-695-302-11	CONNECTOR, BOARD TO BOA	ARD 50P			< TC	>	
CN4 1-568-878-51 PIN, CONNECTOR 3P IC1 8-759-376-77 IC SDA30C263-GEG (KV-32WS2B/32WS2U) CN201 1-766-296-11 CONNECTOR, DUAL SCART IC1 8-759-376-75 IC SDA5250M-C5-GEG (KV-32WS2D)			·				. 10	•	
CN201 1-766-296-11 CONNECTOR, DUAL SCART 8-759-376-75 IC SDA5250M-C5-GEG (KV-32WS2D)			·			TC1	8-759-376-77	TC SDA30C263-GEG	(KA-35M85B/35M851I)
·			•			101			
TOL 0 100 JET JT TO FEETOJE FINOL			·	מא מא		TC2			(224 2EHOED)
	U112 V Z	1 700 920 11	COMMECTOR, DOMED TO BOR	UE		102	0 133 324 34	TO METODE MINUI	



REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIP	TION		REMARK	
									HEMAIN	
IC3		IC TMS27PC020-15FMBE709	(KV-32WS2B/32WS2D)	Q304	8-729-620-06					
		IC TMS27PC020-15FMBW708	(KV-32WS2U)	Q305	8-729-620-06					
IC4		IC PST593C-MMP-4P		Q306	1-801-806-11				6 B	
IC201		IC CXA2040AQ-T4	/m: 20mann /20mann	Q330	8-729-216-22	TRANSISTOR	2SA1037K	-T-14	6-R	
IC202		IC MSP3410B-PS-F7-T	(KV-32WS2B/32WS2U)	0001	0 700 600 06	MD334ATAMAD	0000050			
	8-759-437-97	IC MSP3400C-PS-C6-T-S	(KV-32WS2D)	Q331	8-729-620-06					
T0202	0 750 205 76	IC MC14052BDR2		Q332	8-729-620-06 1-801-806-11					
IC203 IC205		IC PST593C-MMP-4P		Q1001 Q1002	8-729-216-22					
IC301		IC CXA2076Q-TL		Q1002	0-129-210-22	TRANSISTOR	25A1102-	G		
IC301		IC TDA4665T-T			/ DFC	SISTOR >				
IC302		IC TDA8395T/N3	(KV-32WS2B/32WS2D)		V KEC	JIJION >				
10303	0 133 430 13	10 10400331/10	(NV SENDED) SENDED)	JR5	1-216-295-00	CONDITCTOR	CHTP			
IC1001	8-759-376-76	IC SDA5273CP-GEG		JR101	1-216-295-00		0			
101001	0 105 510 10	10 0011027301 020		JR102	1-216-295-00		0			
	< COI	T. >		JR200	1-216-295-00		0			
				JR201	1-216-295-00		0			
L102	1-410-506-11	INDUCTOR 5.6UH	(KV-32WS2B/32WS2D)	-			•			
L111		INDUCTOR CHIP 1UH	(,,	JR204	1-216-295-00	SHORT	0			
L120	1-408-602-31			JR205	1-216-295-00	SHORT	0			
L121	1-408-591-11			JR207	1-216-295-00	SHORT	0			
L122	1-408-602-31	INDUCTOR 8.2UH		JR1010	1-216-295-00	SHORT	0			
L300	1-408-607-31	INDUCTOR 22UH		R1	1-216-049-00		1K	5%	1/10W	
				R2	1-216-025-00	•	100	5%	1/10W	
	< TRA	NSISTOR >		R3	1-216-025-00	•	100	5%	1/10W	
				R4	1-216-013-00	•	33	5%	1/10W	
Q1		TRANSISTOR 2SC3052-EF		R5	1-216-065-00	RES,CHIP	4.7K	5%	1/10W	
Q4		TRANSISTOR 2SC3052-EF			1 016 011 00		450	F 0	4 /4 0==	
Q15		TRANSISTOR 2SA1162-G		R7	1-216-041-00	•	470	5% ••	1/10W	
Q80		TRANSISTOR 2SC3052-EF		R9	1-216-041-00	•	470	5% = 0.	1/10W	
Q81	8-729-216-22	TRANSISTOR 2SA1162-G		R18 R19	1-216-025-00 1-216-025-00		100	5% 5%	1/10W 1/10W	
Q82	9_720_620_06	TRANSISTOR 2SC3052-EF		R20	1-216-025-00	•	100 100	5%	1/10W 1/10W	
Q110		TRANSISTOR 2SC3052-EF		NZV	1-210-025-00	RES, CHIP	100	J*0	1/10#	
Q111		TRANSISTOR 2SA1162-G		R21	1-216-025-00	RES CHIP	100	5%	1/10W	
Q112		TRANSISTOR 2SC3052-EF		R23	1-216-041-91	•	470	5%	1/10W	
Q120		TRANSISTOR 2SC3052-EF		R24	1-216-065-00	•	4.7K		1/10W	
2				R25	1-216-065-00	•	4.7K		1/10W	
Q121	8-729-620-06	TRANSISTOR 2SC3052-EF		R28	1-216-065-00		4.7K		1/10W	
Q122		TRANSISTOR 2SC3052-EF				,				
Q124	8-729-620-06	TRANSISTOR 2SC3052-EF	(KV-32WS2B/32WS2D)	R29	1-216-065-00	RES, CHIP	4.7K	5%	1/10W	
Q130	8-729-216-22	TRANSISTOR 2SA1162-G	(KV-32WS2B/32WS2D)	R30	1-216-065-00	RES, CHIP	4.7K	5%	1/10W	
Q140	8-729-620-06	TRANSISTOR 2SC3052-EF		R31	1-216-065-00	RES, CHIP	4.7K	5%	1/10W	
				R32	1-216-025-00	RES, CHIP	100	5%	1/10W	
Q141	8-729-620-06	TRANSISTOR 2SC3052-EF		R33	1-216-025-00	RES, CHIP	100	5%	1/10W	
Q201	8-729-620-06	TRANSISTOR 2SC3052-EF								
Q202	8-729-620-06	TRANSISTOR 2SC3052-EF		R34	1-216-025-00	RES, CHIP	100	5%	1/10W	
Q205		TRANSISTOR DTC144EKA		R35	1-216-025-00	•	100	5%	1/10W	
Q206	8-729-216-22	TRANSISTOR 2SA1162-G		R39	1-216-073-00	•	10K	5%	1/10W	
				R46	1-216-095-00	•	82K	5%	1/10W	
Q207		TRANSISTOR 2SA1162-G		R48	1-216-121-91	RES,CHIP	1M	5%	1/10W	
Q208		TRANSISTOR 2SA1162-G							(KV-32WS2B/32	2WS2D)
Q209		TRANSISTOR 2SC3052-EF								
Q210		TRANSISTOR DTC144EKA		R49	1-216-025-00	RES,CHIP	100	5%	1/10W	
Q300	1-801-806-11	TRANSISTOR DTC144EKA								



REF. NO.	PART.NO	DESCRIP	PTION		REMARK	REF. NO.	PART.NO	DESCRIF	TION		REMARK
R50	1-216-065-00	RES,CHIP	4.7K	5%	1/10W	R107	1-216-295-00	SHORT	0		
R51	1-216-059-00	RES, CHIP	2.7K	5%	1/10W	R110	1-216-073-00	RES, CHIP	10K	5%	1/10W
R54	1-216-025-00		100	5%	1/10W	R111	1-216-029-00	•	150	5%	1/10W
R58	1-216-063-91		3.9K	5%	1/10W	R112	1-216-029-00		150	5%	1/10W
R59	1-216-025-00		100	5%	1/10W	R113	1-216-001-00		10	5%	1/10W
R60	1-216-025-00	RES.CHIP	100	5%	1/10W	R114	1-216-029-00	RES.CHIP	150	5%	1/10W
R61	1-216-025-00		100	5%	1/10W	R115	1-216-037-00		330	5%	1/10W
R62	1-216-025-00		100	5% 5%	1/10W	R119	1-216-295-00		0	•	-/
R63	1-216-025-00		100	5% 5%	1/10W	R120	1-216-069-00		6.8K	5%	1/10W
R64	1-216-025-00		100	5%	1/10W	R121	1-216-073-00		10K	5%	1/10W
R65	1-216-025-00	RES CHID	100	5%	1/10W	R122	1-216-041-00	RES CHIP	470	5%	1/10W
R66	1-216-057-00		2.2K		1/10W	R123	1-216-031-00		180	5%	1/10W
	1-216-057-00					R124					
R67			2.2K	5% ⊑∘	1/10W		1-216-049-00		1K	5% ⊑∘	1/10W
R68	1-216-025-00		100	5% 5°	1/10W	R125	1-216-081-00		22K	5%	1/10W
R69	1-216-049-00	KES, CHIP	1K	5%	1/10W	R126	1-216-025-00	RES, CHIP	100	5%	1/10W
R70	1-216-025-00	RES,CHIP	100	5%	1/10W	R127	1-216-081-00	RES,CHIP	22K	5%	1/10W
R71	1-216-025-00	RES,CHIP	100	5%	1/10W	R128	1-216-035-00	RES,CHIP	270	5%	1/10W
R72	1-216-025-00	RES,CHIP	100	5%	1/10W	R129	1-216-037-00	RES,CHIP	330	5%	1/10W
R73	1-216-025-00	RES, CHIP	100	5%	1/10W	R130	1-216-061-00	RES, CHIP	3.3K	5%	1/10W
R74	1-216-025-00	RES,CHIP	100	5%	1/10W	R131	1-216-073-00	RES,CHIP	10K	5%	1/10W
R75	1-216-025-00	RES,CHIP	100	5%	1/10W	R132	1-216-025-00	RES,CHIP	100	5%	1/10W
R76	1-216-025-00		100	5%	1/10W	R133	1-216-041-00		470	5%	1/10W
R77	1-216-025-00		100	5%	1/10W	R134	1-216-001-00		10	5%	1/10W
R78	1-216-025-00		100	5%	1/10W	R135	1-216-037-00		330	5%	1/10W
R79	1-216-033-00		220	5% 5%	1/10W	1,200	1 110 007 00	120 / 01121	550	•	(KV-32WS2B/32WS2D)
K73	1 210 033 00	NEO, CHIII	220	30	1/100		1-216-045-00	RES,CHIP	680	5%	1/10W (KV-32WS2U)
R80	1-216-049-00	RES, CHIP	1K	5%	1/10W						
R81	1-216-081-00	RES, CHIP	22K	5%	1/10W	R136	1-216-033-00	RES, CHIP	220	5%	1/10W
R82	1-216-065-00	RES, CHIP	4.7K	5%	1/10W	R137	1-216-049-00	RES, CHIP	1K	5%	1/10W
R83	1-216-073-00	RES, CHIP	10K	5%	1/10W	R138	1-216-041-00	RES, CHIP	470	5%	1/10W
R84	1-216-081-00		22K	5%	1/10W	R144	1-216-081-71	RES, CHIP	22K	5%	1/10W
		·				R145	1-216-049-71	RES, CHIP	1K	5%	1/10W
R85	1-216-073-00		10K	5%	1/10W						
R86	1-216-077-00		15K	5%	1/10W	R146	1-216-049-71		1K	5%	1/10W
R87	1-216-081-00	-	22K	5%	1/10W	R147	1-216-033-91		220	5%	1/10W
888	1-216-025-00	RES,CHIP	100	5%	1/10W	R148	1-216-051-91	•	1.2K	5%	1/10W
R89	1-216-025-00	RES,CHIP	100	5%	1/10W	R149	1-216-049-71	RES,CHIP	1K	5%	1/10W
.01	1 016 005 00	222 222	100	F 0	1 /10**	R150	1-216-061-91	RES,CHIP	3.3K	5%	1/10W
R91	1-216-025-00		100	5% = 0.	1/10W	2000	1 016 040 00	DEC CUIT	1 77	E 0	1 /1 014
R92	1-216-025-00	-	100	5% 5°	1/10W	R200	1-216-049-00		1K	5% =°	1/10W
R93	1-216-033-00	-	220	5% 5°	1/10W	R201	1-216-033-00	•	220	5% 5 ∘	1/10W
R94	1-216-033-00	-	220	5 %	1/10W	R202	1-216-033-00		220	5% - ∘	1/10W
R95	1-216-033-00	RES,CHIP	220	5%	1/10W	R203 R204	1-216-025-00 1-216-025-00		100 100	5% 5%	1/10W 1/10W
R99	1-216-065-00	RES, CHIP	4.7K	5%	1/10W			,			-,
R101	1-216-061-00	RES,CHIP	3.3K	5%	1/10W	R205	1-216-083-00	RES,CHIP	27K	5%	1/10W
R102	1-216-025-00		100	5%	1/10W	R206	1-216-033-00		220	5%	1/10W
R103	1-216-025-00		100	5%	1/10W	R208	1-216-041-00		470	5%	1/10W
R104	1-216-073-00	-	10K	5%	1/10W	R209	1-216-184-91		270	5%	1/8W
		·				R210	1-216-013-00		33	5%	1/10W
11 AE	1-216-113-00	RES.CHIP	470K	5%	1/10W						
R105 R106	1-216-073-00		10K	5%	1/10W	R211	1-216-033-00		220	5%	1/10W



REF. NO.	PART.NO	DESCRI	PTION		REMARK	REF. NO.	PART.NO	DESCRI	PTION		REMARK	
R212	1-216-022-00	RES,CHIP	75	5%	1/10W	R265	1-216-065-00	RES,CHIP	4.7K	5%	1/10W	
R213	1-216-022-00	RES, CHIP	75	5%	1/10W	R270	1-216-022-00	RES, CHIP	75	5%	1/10W	
R214	1-216-025-00	RES, CHIP	100	5%	1/10W	R271	1-216-022-00	RES, CHIP	75	5%	1/10W	
R216	1-216-025-00	RES, CHIP	100	5%	1/10W	R272	1-216-022-00	RES, CHIP	75	5%	1/10W	
R217	1-216-113-00	RES, CHIP	470K	5%	1/10W	R273	1-216-022-00		75	5%	1/10W	
R218	1-216-025-00	RES,CHIP	100	5%	1/10W	R280	1-216-049-00	RES,CHIP	1K	5%	1/10W	
R219	1-216-113-00	RES, CHIP	470K	5%	1/10W	R281	1-216-089-00	RES, CHIP	47K	5%	1/10W	
R220	1-216-295-00	SHORT	0			R282	1-216-093-00	RES, CHIP	68K	5%	1/10W	
R221	1-216-039-00	RES, CHIP	390	5%	1/10W	R284	1-216-089-00	RES, CHIP	47K	5%	1/10W	
R222	1-216-089-00	RES, CHIP	47K	5%	1/10W	R285	1-216-093-00	RES,CHIP	68K	5%	1/10W	
R223	1-216-295-00	SHORT	0			R287	1-216-093-00	RES,CHIP	68K	5%	1/10W	
R224	1-216-039-00	RES, CHIP	390	5%	1/10W	R288	1-216-093-00	RES, CHIP	68K	5%	1/10W	
R225	1-216-089-00	RES, CHIP	47K	5%	1/10W	R289	1-216-689-11	RES, CHIP	39K	5%	1/10W	
R226	1-216-033-00	RES, CHIP	220	5%	1/10W	R290	1-216-689-11	RES, CHIP	39K	5%	1/10W	
R227	1-216-022-00	RES, CHIP	75	5%	1/10W	R291	1-216-295-00	SHORT	0			
R228	1-216-022-00	RES,CHIP	75	5%	1/10W	R292	1-216-295-00	SHORT	0			
R229	1-216-033-00	RES, CHIP	220	5%	1/10W	R293	1-216-295-00	SHORT	0			
R230	1-216-022-00	RES, CHIP	75	5%	1/10W	R294	1-216-295-00	SHORT	0			
R232	1-216-025-00	RES, CHIP	100	5%	1/10W	R295	1-216-295-00		0			
R233	1-216-025-00	RES, CHIP	100	5%	1/10W	R296	1-216-295-00		0			
R234	1-216-113-00	RES,CHIP	470K	5%	1/10W	R300	1-216-025-00	RES,CHIP	100	5%	1/10W	
R235	1-216-025-00	RES, CHIP	100	5%	1/10W	R301	1-216-033-00	RES, CHIP	220	5%	1/10W	
R236	1-216-113-00	RES, CHIP	470K	5%	1/10W	R302	1-216-295-00	SHORT	0			
R237	1-216-295-00	SHORT	0			R303	1-216-295-00	SHORT	0			
R238	1-216-089-00	RES,CHIP	47K	5%	1/10W	R308	1-216-025-00	RES,CHIP	100	5%	1/10W	
R239	1-216-039-00	RES,CHIP	390	5%	1/10W	R309	1-216-033-00	RES,CHIP	220	5%	1/10W	
R240	1-216-295-00	SHORT	0			R310	1-216-033-00	RES, CHIP	220	5%	1/10W	
R241	1-216-089-00	RES, CHIP	47K	5%	1/10W	R311	1-216-295-00	SHORT	0			
R242	1-216-039-00	RES, CHIP	390	5%	1/10W	R312	1-216-295-00	SHORT	0			
R243	1-216-033-00	RES, CHIP	220	5%	1/10W	R314	1-216-295-00	SHORT	0			
R244	1-216-033-00	RES,CHIP	220	5%	1/10W	R315	1-216-295-00	SHORT	0			
R245	1-216-073-00	RES, CHIP	10K	5%	1/10W	R316	1-216-033-00	RES, CHIP	220	5%	1/10W	
R246	1-216-063-91	RES, CHIP	3.9K	5%	1/10W	R318	1-216-689-11	RES, CHIP	39K	5%	1/10W	
R247	1-216-063-91	RES, CHIP	3.9K	5%	1/10W	R319	1-216-081-00	RES, CHIP	22K	5%	1/10W	
R249	1-216-001-00	RES, CHIP	10	5%	1/10W	R320	1-216-025-00	RES,CHIP	100	5%	1/10W	
R251	1-216-025-00	RES,CHIP	100	5%	1/10W	R321	1-216-025-00	RES,CHIP	100	5%	1/10W	
R252	1-216-025-00	RES,CHIP	100	5%	1/10W	R322	1-216-025-00	RES,CHIP	100	5%	1/10W	
R253	1-216-025-00	RES, CHIP	100	5%	1/10W	R323	1-216-033-00	RES,CHIP	220	5%	1/10W	
R254	1-216-025-00	RES, CHIP	100	5%	1/10W	R324	1-216-063-91	RES, CHIP	3.9K	5%	1/10W	
R255	1-216-025-00	RES, CHIP	100	5%	1/10W	R326	1-216-025-00	RES,CHIP	100	5%	1/10W	
R256	1-216-025-00	RES,CHIP	100	5%	1/10W	R327	1-216-025-00	RES,CHIP	100	5%	1/10W	
R257	1-216-013-00	RES, CHIP	33	5%	1/10W	R328	1-216-129-00	RES,CHIP	2.2M	5%	1/10W	
R258	1-216-049-00		1K	5%	1/10W	R329	1-216-089-00	RES,CHIP	47K	5%	1/10W	
R260	1-216-198-91		1K	5%	1/8W	R330	1-216-025-00		100	5%	1/10W	
R261	1-216-073-00		10K	5%	1/10W	R331	1-216-059-00	•	2.7K	5%	1/10W	
R262	1-216-061-00	RES,CHIP	3.3K	5%	1/10W	R332	1-216-025-00	RES,CHIP	100	5%	1/10W	
R263	1-216-065-00		4.7K		1/10W	R333	1-216-075-00		12K	5%	1/10W	
		•						•				

A IF (KV-32WS2B)

	PART.NO	DESCRIPT	ION		REMARK	REF. NO.	PART.NO	DESCRIPTION		REMARK
R334	1-216-041-00	RES,CHIP	470	5%	1/10W		< TUN	IER >		
R335	1-216-675-11	METAL CHIP	10K	0.50%	1/10W					
R336	1-216-109-00	RES,CHIP	330K	5%	1/10W	TU101	1-693-340-11	TUNER/VIF (FR)		(KV-32WS2B)
R337	1-216-025-00	RES,CHIP	100	5%	1/10W		1-693-338-11	TUNER/VIF (AEP)		(KV-32WS2D)
R338	1-216-051-00	RES,CHIP	1.2K	5%	1/10W		1-693-339-11	TUNER/VIF (UK)		(KV-32WS2U)
R339	1-216-049-00	RES,CHIP	1K		1/10W		< CRY	STAL >		
R340	1-216-025-00	RES, CHIP	100	5%	1/10W					
R341	1-216-025-00	RES, CHIP	100	5%	1/10W	X1	1-767-154-21	VIBRATOR, CERAMIC		
342	1-216-049-00	RES,CHIP	1K	5%	1/10W	X201	1-760-628-11	VIBRATOR, CRYSTAL		
343	1-216-061-00	RES,CHIP	3.3K	5%	1/10W	X301	1-567-504-11	OSCILLATOR, CRYSTAL		
						X302	1-567-505-11	OSCILLATOR, CRYSTAL		
344	1-216-067-00	RES,CHIP	5.6K		1/10W	X303	1-767-127-11	VIBRATOR, CERAMIC		
345	1-216-025-00	RES,CHIP	100	5%	1/10W					
R346	1-216-063-91	RES, CHIP	3.9K	5%	1/10W	X1001	1-579-965-21	VIBRATOR, CRYSTAL		
R347	1-216-025-00	RES, CHIP	100	5%	1/10W					
R348	1-216-025-00	RES,CHIP	100	5%	1/10W	******	******	******	******	******
R349	1-216-025-00	RES,CHIP	100	5%	1/10W		*A-1652-036-A	IF BOARD, COMPLETE (F	(V-32WS2E	3)
350	1-216-042-00	RES,CHIP	510	5%	1/10W			******		
351	1-216-053-00	RES,CHIP	1.5K	5%	1/10W					
352	1-216-077-00	RES,CHIP	15K	5%	1/10W		< CAR	PACITOR >		
353	1-216-033-00	RES,CHIP	220	5%	1/10W	001	1 160 600 11	CEDANTO CUID INE		16V
354	1-216-295-00	CHODM	۸			C01 C02		CERAMIC CHIP 1MF CERAMIC CHIP 2.2MF		16V 16V
			0 1 v	EQ.	1 /1 017				20%	
357	1-216-049-00		1K	5%	1/10W	C03	1-104-957-11		20%	16V
358	1-216-295-00		100%	FO	1 /1 017	C04		TANTAL. CHIP 10MF	20%	6.3V
1359 1361	1-216-097-00 1-216-295-91		100K 0	36	1/10W	C05	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
						C06		CERAMIC CHIP 0.47MF		16V
363	1-216-295-91		0			C08		CERAMIC CHIP 0.01MF	10%	50V
365	1-216-295-91		0			C09		CERAMIC CHIP 0.1MF	10%	25V
370	1-216-295-00		0			C10		CERAMIC CHIP 0.1MF	10%	25V
R1001 R1002	1-216-025-00 1-216-025-00		100 100		1/10W 1/10W	C11	1-164-004-11	CERAMIC CHIP 0.1MF	10%	25V
					-,	C12	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
1005	1-216-041-00	RES,CHIP	470	5%	1/10W	C13	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
1010	1-216-295-00	SHORT	0			C14	1-164-232-11	CERAMIC CHIP 0.01MF	10%	50V
1012	1-216-041-00	RES, CHIP	470	5%	1/10W	C15	1-104-957-11	ELECT 47MF	20%	16V
1014	1-216-065-00	RES, CHIP	4.7K	5%	1/10W	C16	1-162-638-11	CERAMIC CHIP 1MF		16V
1017	1-216-295-00	SHORT	0							
						C17		CERAMIC CHIP 47PF	5%	50V
1020	1-216-097-00	RES, CHIP	100K	5%	1/10W	C18		CERAMIC CHIP 2.2MF		16V
1021	1-216-029-00	•	150	5%	1/10W	C20	1-124-937-11		20%	16V
1022	1-216-029-00	RES,CHIP	150	5%	1/10W	C21	1-164-506-11	CERAMIC CHIP 4.7MF		16V
1023	1-216-029-00	RES,CHIP	150	5%	1/10W					
R1024	1-216-045-00	RES,CHIP	680	5%	1/10W		< FII	TER >		
R1026	1-216-025-00	RES,CHIP	100	5%	1/10W	CF01	1-409-430-11	TRAP, CERAMIC		
R1027	1-216-025-00		100		1/10W					
1028	1-216-025-00		100		1/10W	SWF01	1-579-273-11	FILTER, SURFACE WAVE		
						SWF02	1-760-329-11	FILTER, SURFACE WAVE		
						i i				

IF (KV-32WS2B)

							1		`	
REF. NO.	PART.NO	DESCRIPTION			REMARK	REF. NO.	PART.NO	DESCRIPTION		REMARK
	< TRI	MMER >				R18	1-216-013-00	METAL GLAZE	33 5%	1/10W
						R20	1-216-222-00	METAL GLAZE	10K 5%	1/8W
CT01	1-760-662-11	TRAP, CERAMIC				R23	1-216-049-91	METAL GLAZE	1K 5%	1/10W
						R25	1-216-057-00	METAL GLAZE	2.2K 5%	1/10W
	< IC	>				R21	1-216-174-00	METAL GLAZE	100 5%	1/8W
IC01	8-759-069-36	IC MC74HC4046AF					< VAI	RIABLE RESISTOR >		
	< COI	L >				RV01	1-226-703-11	, ,	TAL GLAZE 10K	
***	1 400 406 00	TURNISMOR F	C****			RV02	1-226-703-11	RES, ADJ, MET	TAL GLAZE 10K	
L02	1-408-406-00		. 6UH					******		
LO4	1-408-419-00		BUH 22mm			*****	*****	*******		
L05		INDUCTOR CHIP 0					+3 1650 007 3	TE DOADD COMPLE	מסומכת לאנד מסומכת	. \
L06	1-408-399-00	INDUCTOR I	. 5UH				*A-1652-03/-A	IF BOARD, COMPLE	•	')
	< VAR	IABLE COIL >					*A-1652-038-A	IF BOARD, COMPLE	-	ı)
LV01	1-411-874-11	COIL					< CA	PACITOR >		
	< TRA	NSISTOR >					\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
						C01	1-164-337-11	CERAMIC CHIP 2.2	MF	16V
Q01	8-729-216-22	TRANSISTOR 2S	A1162-G			C02	1-164-337-11	CERAMIC CHIP 2.2	MF	16V
Q02	8-729-035-11	TRANSISTOR BF	799-GEG			C03	1-104-957-11	ELECT 47N	4F 20%	16V
Q03	8-729-035-11	TRANSISTOR BF	799-GEG			C04	1-135-259-11	TANTAL. CHIP 10M	4F 20%	6.3V
Q04	8-729-901-01	TRANSISTOR DTO				C05	1-164-004-11	CERAMIC CHIP 0.1	LMF 10%	25V
	/ DF0	ISTOR >				C06	1_164_005_11	CERAMIC CHIP 0.4	17MF	16V
	\ NEO	1510K /				C08		CERAMIC CHIP 0.4		50V
JR01	1-216-296-91	METAL GLAZE	0	5%	1/8W	C09		CERAMIC CHIP 0.0		25V
JR02	1-216-296-91	METAL GLAZE	0	5%	1/8W	C10		CERAMIC CHIP 0.1		25V 25V
JR03	1-216-295-00	METAL GLAZE	0	5%	1/10W	C11		CERAMIC CHIP 0.1		25V 25V
JR04	1-216-296-91	METAL GLAZE	0	5%	1/8W	011	1 104 004 11	CERTAIN CHII V.I	100	231
JR05	1-216-295-00	METAL GLAZE	0	5%	1/10W	C15	1-124-282-00	ELECT 22N	4F 20%	25V
01.00	1 210 255 00	min omni	·	•	1/ 1011	C16		CERAMIC CHIP 1ME		16V
JR07	1-216-295-00	METAL GLAZE	0	5%	1/10W	C18		CERAMIC CHIP 2.2		16V
ONO /	1 210 255 00	MEIAE CEAEE	v	30	1/100	C19	1-124-937-11			16V
R01	1-216-029-00	METAL GLAZE	150	5%	1/10W					
R02	1-216-089-91	METAL GLAZE	47K	5%	1/10W		< FI	LTER >		
R03	1-216-089-91	METAL GLAZE	47K	5%	1/10W					
R04	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	CF01		TRAP, CERAMIC (5	•	
R05	1-216-081-00	METAL GLAZE	22K	5%	1/10W		1-409-333-21	TRAP, CERAMIC (6	i.OMHZ)	
R06	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	SWF04	1-767-084-11	FILTER, SURFACE	WAVE	
R07	1-216-025-91	METAL GLAZE	100	5%	1/10W			,		
R08	1-216-174-00	METAL GLAZE	100	5%	1/8W		< IC	>		
R09	1-216-045-00	METAL GLAZE	680	5%	1/10W					
R10	1-216-041-00	METAL GLAZE	470	5%	1/10W	IC01	8-759-385-26	IC TDA4472-CFLG3	}	
R11	1-216-051-00	METAL GLAZE	1.2K	5%	1/10W		< CO:	IT >		
R12	1-216-063-91	METAL GLAZE	3.9K	5%	1/10W		. •••			
R13	1-216-061-00	METAL GLAZE	3.3K	5%	1/10W	L02	1-408-408-00	INDUCTOR S	3.2UH	
R14	1-216-023-00	METAL GLAZE	82	5%	1/10W	L04	1-408-419-00		S8UH	
R15	1-216-017-91	METAL GLAZE	47	5%	1/10W	T08		INDUCTOR CHIP (
-44	4 444 444 44				4 /4 0					
R16	1-216-033-00	METAL GLAZE	220	5% •••	1/10W					
R17	1-216-017-91	METAL GLAZE	47	5%	1/10W					

The components identified by shading and marked ∆ are critical for safety Replace only with the part number specified.

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REF. NO.	PART.NO	DESCRIPT	TON		REMARK	REF. NO.	PART.NO	DESCRI	PTION		REMARK	
	< VAI	RIABLE COIL >				C717	1-102-114-00	CERAMIC	470PF	10%	50V	
						C718	1-102-114-00	CERAMIC	470PF	10%	50V	
LV01	1-411-874-11	COIL				C719	1-102-114-00	CERAMIC	470PF	10%	50V	
						C722	1-101-880-00		47PF	5%	50V	
	< TRA	ANSISTOR >				C723	1-101-880-00		47PF	5%	50V	
Q01	8-729-216-22	TRANSISTOR 2	2SA1162-G	}		C724	1-101-880-00	CERAMIC	47PF	5%	50V	
	< RES	SISTOR >					< CON	NECTOR >				
JR01	1-216-296-91	METAL GLAZE	0	5% 1/8	i	CN701	1-778-037-11	PIN, CONNE	CTOR 6P			
JR02	1-216-296-91	METAL GLAZE	0	5% 1/8	1	CN702	1-695-915-11					
JR03	1-216-295-00			5% 1/10		CN703	*1-568-882-51	-	•			
JR04	1-216-296-91			5% 1/8				,				
JR05	1-216-295-00			5% 1/10			< DIC	DE >				
JR07	1-216-295-00	METAL GLAZE	0	5% 1/10	W	D701	8-719-109-72	DIODE RD3.	9ES-B2			
						D702	8-719-991-33	DIODE 1SS1	.33T-77			
R01	1-216-029-00	METAL GLAZE	150	5% 1/10)W	D703	1-535-465-11	LEAD, JUME	PER (5.0MM)			
R02	1-216-089-91	METAL GLAZE		5% 1/10		D704	1-535-465-11	•				
R03	1-216-089-91			5% 1/10		D705	1-535-465-11	•				
R04	1-216-057-00		2.2K				- 000 100		(0.01)			
R05	1-216-081-00		22K	•		D706	8-719-991-33	DIODE 1881	33T-77			
1.00	***			-, -,	,,,	D707	8-719-991-33					
R06	1-216-057-00	МЕТАТ, СТАКЕ	2.2K	5% 1/10	าพ	D708	8-719-991-33					
R07	1-216-025-91			5% 1/10		D700	8-719-991-33					
R08	1-216-174-00			5% 1/8		D710	8-719-991-33					
R09	1-216-045-00			5% 1/00		D/10	0 119 991 33	DIODE 1331	.551 77			
KUJ	1-216-043-00			5% 1/10		D711	8-719-302-43	חזרת פוות	,			
	1-210-049-91	MEIAL GLAZE	IK	J ₀ 1/10) n	D711	1-535-465-11					
R10	1-216-041-00	MEMAT CTAGE	470	5% 1/10) list	D713	8-719-991-33					
R11	1-216-051-00		1.2K			D714 D715	8-719-991-33					
R23	1-216-031-00			5% 1/10		D713	8-719-991-33					
R24	1-216-295-91			5% 1/10		D/10	0-719-991-55	ונכנו שעטוע	.551-77			
R25	1-216-293-91		0 2.2K	•		D717	8-719-991-33	DIODE 1001	22m 77			
KZ3	1-210-037-00	MEIAL GLAZE	2.21	J ₀ 1/10	JW	D717	8-719-991-33					
D001	1 016 174 00	MEMAT CTARE	100	5% 1/8		D718	8-719-991-33					
R021	1-216-174-00	METAL GLAZE	100	36 1/81	1	D719	8-719-991-33					
	< VAI	RIABLE RESISTO	OR >			D720	9-113-331-33	DIODE 1991	.331-11			
RV01	1-226-703-11	RES. ADJ. ME	ETAL GLAZ	E 10K			< CRI	SOCKET >				
					*****	J701 🛮 🖽	1-526-990-21	SOCKET, CF	RT			
*****							< COI	T >				
	*A-1638-078-A	C BOARD, COM				L704	1-408-609-41	INDUCTOR	33UH			
	< CAI	PACITOR >					< TRA	NSISTOR >				
0700	1 100 115 00	CEDANTC	E C ^ P=	100	E O T Z	0700	0 700 110 70	MD 3 MOZOMO	2000705 ****			
C702	1-102-115-00		560PF	10%	50V	Q702	8-729-119-78					
C703	1-102-116-00		680PF	10%	50V	Q703	8-729-906-70					
C708	1-162-114-00		0.0047M		2KV	Q704	8-729-200-17					
C710	1-107-652-11		10MF	20%	250V	Q705	8-729-119-78					
C712	1-102-116-00	CERAMIC	680PF	10%	50V	Q706	8-729-906-70	TRANSISTOR	R BF871-127			
C714	1-126-967-11	ELECT	47MF	20%	16V	Q707	8-729-200-17	TRANSISTOR	R BF421L-AMMO			



REF. NO.	PART.NO	DESCRIPTION	ON		REMARK	REF. NO.	PART.NO	DESCRIP	TION		REMARK
Q708	8-729-119-78	TRANSISTOR 2	SC2785-HFE				< VAF	RIABLE RESIST	OR >		
Q709	8-729-906-70	TRANSISTOR B	F871-127								
Q710	8-729-200-17	TRANSISTOR B	F421L-AMMO			RV701	1-230-641-11	RES, ADJ, M	ETAL GLAZE 2	. 2M	
Q711	8-729-026-41	TRANSISTOR 2	sa933as-qrt			RV702	1-241-656-21				
	< RES	SISTOR >				*****	******	******	******	*****	******
R704	1-216-486-00	METAL OXIDE	8.2K 5%	3W	F		*A-1640-284-A	D4 BOARD, C	OMPLETE		
R705	1-260-103-11		2.2K 5%	1/2W				******			
R706	1-247-815-91		220 5%	1/4W							
R707	1-249-408-11		180 5%	1/4W			< CAE	PACITOR >			
R708	1-535-143-11	LEAD, JUMPER	(10.0MM)								
						C2802	1-128-551-11		22MF	20%	25V
R709	1-202-844-00		330K 10%	•		C2804	1-136-165-00		0.1MF	5%	50V
R711	1-247-843-11		3.3K 5%	1/4W		C2805	1-102-852-91		47PF	5%	50V
R712	1-260-103-11		2.2K 5%	1/2W		C2806	1-136-250-11		0.001MF	2%	100V
R714 R715	1-216-486-00 1-249-417-11		8.2K 5% 1K 5%	3W 1/4W		C2807	1-136-161-00	FILM	0.047MF	5%	50V
K/13	1-249-417-11	CARDON	IN 36	1/4W		C2808	1-136-153-00	ETIM	0.01MF	5%	50V
R716	1-247-815-91	CADBON	220 5%	1/4W		C2809	1-136-153-00		0.01MF	ა 5%	50V
R717	1-249-408-11		180 5%	1/4W		C2810	1-136-153-00		0.01MF	5%	50V
R718	1-202-814-11		33K 10%			C2811	1-136-203-11		0.01MF	5% 5%	400V
R719		LEAD, JUMPER		1/211		C2812	1-137-205-11		0.012MF	5%	400V
R720	1-247-843-11	•	3.3K 5%	1/4W		02022	1 10, 100 11		V. 2222	•	1000
				-,		C2813	1-136-193-11	MYLAR	0.47MF	5%	100V
R722	1-202-848-00	SOLID	680K 10%	1/2W		C2814	1-137-536-11		0.0022MF	5%	630V
R723	1-249-417-11		1K 5%	1/4W		C2815	1-136-205-11		0.022MF	10%	400V
R724	1-202-846-00		470K 10%			C2816	1-136-759-11		0.039MF	5%	630V
R726	1-260-103-11	CARBON	2.2K 5%	1/2W		C2817	1-126-933-11	ELECT	100MF	20%	16V
R727	1-247-815-91	CARBON	220 5%	1/4W							
						C2818	1-104-665-11	ELECT	100MF	20%	25V
R728	1-216-350-11	METAL OXIDE	1.2 5%	1W	F	C2819	1-126-933-11	ELECT	100MF	20%	16V
R729	1-249-408-11	CARBON	180 5%	1/4W		C2820	1-126-948-11	ELECT	100MF	20%	35V
R730	1-535-143-11	LEAD, JUMPER	(10.0MM)								
R731	1-247-843-11	CARBON	3.3K 5%	1/4W			< CON	NECTOR >			
R733	1-249-420-11	CARBON	1.8K 5%	1/4W		m=0.001	1 500 050 51				
-=	4 04- 00- 04		444 -	4 / 4		CN2801	1-568-878-51	•			
R734	1-247-807-31		100 5%	1/4W		CN2802	*1-580-798-11				
R735	1-249-420-11		1.8K 5%	1/4W		CN2803	*1-580-798-11				
R736	1-216-486-00		8.2K 5%	3W		CN2804	*1-568-879-11	•			
R739	1-249-417-11		1K 5%	1/4W		CN2805	1-568-878-51	PIN, CONNEC	TOR 3P		
R740	1-249-420-11	CARBON	1.8K 5%	1/4W		CN2806	*1-508-784-00	DIN CONNEC	יד∩ים /5MM בדידי	רשו 1 ח	
R741	1-202-549-00	SOLID	100 20%	1/2W		CN2000	"1-300-704-00	FIN, CONNEC	TON (JUNE FII	Cn, ir	
R744	1-249-421-11		2.2K 5%	1/4W			< DIC	DE >			
R745	1-249-421-11		2.2K 5%	1/4W			,				
R746	1-249-421-11		2.2K 5%	1/4W		D2801	8-719-991-33	DIODE 1SS13	3T-77		
R747	1-249-437-11		47K 5%	1/4W		D2802	8-719-991-33				
				•		D2803	8-719-991-33				
R748	1-249-417-11	CARBON	1K 5%	1/4W		D2804	8-719-979-85				
R749	1-249-435-11	CARBON	33K 5%	1/4W		D2805	8-719-970-87	DIODE ERA38	-06		
						D2806	8-719-970-87	DIODE ERA38	-06		
						D2807	8-719-302-43		•		
						D2808	8-719-302-43				

The components identified by shading and marked ⚠ are critical for safety Replace only with the part number specified.

D4 D

REF. NO.	PART.NO	DESCRIPTI	ON		R	EMARK	REF. NO).	PART.NO	DESCRIPTI	ON		REMARK
	< IC	>					R2828		1-249-441-11	CARBON	100K 5%	1/4W	Ī
							R2829		1-249-441-11	CARBON	100K 5%	1/4W	Ī
IC2801	8-759-103-93	IC UPC393C					R2830		1-215-907-11	METAL OXIDE	22 5%	3W	F
C2802	8-759-701-59	IC NJM78M09F	A				R2831		1-249-377-11	CARBON	0.47 5%	1/4W	I F
							R2832		1-249-379-11	CARBON	0.68 5%	1/4W	
	< COI	L >							< REL	7V \			
2801	1-406-674-11	TNDUCTOR	OUH						< KEI	AI >			
L2802	1-406-989-21		OUH				RY2801	ı	1-755-172-11	PRT.AV			
L2803	1-406-989-21		OUH				K12001	•	1 755 172 11	KEHAI			
2804	1-406-987-11		OUH						✓ mpx	NSFORMER >			
L2805	1-406-667-11		OUH						\ IM	INSPORMEN /			
12003	1-400-007-11	INDUCTOR	OOH				m2001		1 406 004 11	TNIDIICMOD	OTTE		
	< TRA	NSISTOR >					T2801 T2802		1-406-904-11 1-429-305-11		OUH FERRITE /I	\FT\	
	\ 11A	MOIDION >					12002		1 429 303 11	INMOPORTER,	remail (i	,,,,	
22801	8-729-119-78	TRANSISTOR 2	SC2785-H	IFE			*****	***	*****	*****	*****	*****	*****
22802	8-729-119-78	TRANSISTOR 2	SC2785-H	IFE									
2803	8-729-119-78	TRANSISTOR 2	SC2785-H	FE					*A-1642-231-A	D BOARD, COM	PLETE		
22804	8-729-119-78	TRANSISTOR 2	SC2785-H	IFE						*****			
22805	8-729-119-78	TRANSISTOR 2	SC2785-H	FE									
-									4-201-023-01	SPACER, INSU	LATING		
2806	8-729-039-68	TRANSISTOR I	RF620						4-202-373-01	•			
2807	8-729-119-78			FE					4-202-373-01				
2808		TRANSISTOR 2											
									4-202-710-01	SPACER, INSU	LATING		
	< RES	ISTOR >							4-382-854-11	SCREW (M3X10), P, SW (+	-)	
R2801	1-249-421-11		2.2K		1/4W				< CAP	ACITOR >			
2804	1-249-437-11		47K		1/4W								
2805	1-249-429-11	CARBON	10K	5% 1	1/4W		C502		1-102-824-00	CERAMIC	470PF	5%	50V
R2806	1-249-413-11		470	5% 1	1/4W		C503		1-136-165-00		0.1MF	5%	50V
R2807	1-249-429-11	CARBON	10K	5% 1	1/4W		C504		1-102-824-00	CERAMIC	470PF	10%	50V
							C506		1-126-941-11	ELECT	470MF	20%	25V
R2808	1-249-441-11	CARBON	100K		1/4W		C507		1-109-953-11	ELECT	2.2MF	20%	50V
R2809	1-249-413-11	CARBON	470	5% 1	1/4W								
R2810	1-215-477-00	METAL	220K	1% 1	1/4W		C509		1-136-165-00	FILM	0.1MF	5%	50V
R2811	1-215-485-00	METAL	470K	1% 1	1/4W		C510		1-126-969-11	ELECT	220MF	20%	50V
R2812	1-215-485-00	METAL	470K	1% 1	1/4W		C511		1-136-202-11	FILM	0.33MF	5%	63V
							C513		1-106-220-00	MYLAR	0.1MF	10%	100V
R2813	1-215-467-00	METAL	82K	1% 1	1/4W		C514		1-136-165-00		0.1MF	5%	50V
R2814	1-215-441-00	METAL	6.8K	1% 1	1/4W								
R2815	1-215-469-00		100K		1/4W		C515		1-126-941-11	ELECT	470MF	20%	25V
R2816	1-215-465-00		68K		1/4W		C517		1-126-941-11		470MF	20%	25V
2817	1-215-443-00		8.2K		1/4W		C518		1-102-228-00		470PF	10%	500V
					,		C519		1-102-228-00		470PF	10%	500V
2818	1-215-469-00	METAT.	100K	1% 1	1/4W		C520		1-126-941-11		470MF	20%	25V
2819	1-249-429-11		100K		1/4W		5520		>41 11				
2820	1-249-425-11		4.7K		1/4W		C521		1-107-698-11	RIECT	10MF	20%	25V
2821	1-249-425-11				1/4W		C522		1-126-964-11		10MF	20%	50V
2822							C522		1-126-964-11		0.1MF	20% 5%	50V 50V
~022	1-249-437-11	CARDUN	47K	ا در	1/4W		C600	٨	1-136-165-00		0.1MF	20%	250V
2823	1-215-907-11	METAL OXIDE	22	5% 3	3W	F			1-161-964-91		0.0022MF	200	250V 250V
2824	1-249-429-11				1/4W	-				,			
R2825	1-249-429-11		2.2K		1/4W		C602	Λ	1-161-964-91	CERAMIC	0.0047MF		250V
	1-249-421-11				1/4W		C603	7:7	1-101-904-91			20%	400V
72826		CUITOIA	T1/	J-0	-/ 4M		C003		- 150-000-II	апаст (впосу)	JJUNE	200	700¥
R2826 R2827	1-249-441-11		100K	EQ 1	1/4W	I	C604		1-126-968-11	ਦਾ ਦ∕ਾ	100MF	20%	50V



REF. NO.	PART.NO	DESCRIPTI	ON		REMARK	REF. NO.	PART.NO	DESCRIPTI	ON		REMARK
C605	1-107-929-11	ELECT	10MF	20%	100V	C816	1-161-754-00	CERAMIC	0.001MF	10%	2KV
2606	1-162-318-11	CERAMIC	0.001MF	10%	500V	C817	1-161-754-00	CERAMIC	0.001MF	10%	2KV
607	1-104-666-11	ELECT	220MF	20%	25V	C819	1-136-208-11	FILM	0.068MF	10%	250V
608	1-109-880-11	FILM	0.0015MF	3%	2KV	C821	1-162-114-00	CERAMIC	0.0047MF	100	2KV
611	1-103-880-11	CERAMIC	470PF	3% 10%	500V	C822	1-102-114-00	ELECT	22MF	20%	250V
512	1-111-160-11	ELECT	22MF	20%	100V	C824	1-123-024-21	ELECT	33MF		160V
613	1-124-347-00	ELECT	100MF	20%	160V	C829	1-126-959-11	ELECT	0.47MF	20%	50V
614	1-126-933-11	ELECT	100MF	20%	16V	C832	1-126-959-11	ELECT	0.47MF	20%	50V
615	1-115-789-11	ELECT	0.001F	20%	25V	C834	1-128-551-11	ELECT	22MF	20%	25V
16	1-115-789-11	ELECT	0.001F	20%	25V	C835	1-162-318-11	CERAMIC	0.001MF	10%	500V
17	1-128-339-11	ELECT	2200MF	20%	16V	C836	1-162-117-00	CERAMIC	100PF	10%	500V
518	1-136-165-00	FILM	0.1MF	5%	50V	C838	1-102-228-00	CERAMIC	470PF	10%	500V
519	1-102-228-00	CERAMIC	470PF	10%	500V	C839	1-136-207-11	FILM	0.047MF	10%	250V
20	1-102-228-00	CERAMIC	470PF	10%	500V	C845	1-101-880-00	CERAMIC	47PF	5%	50V
21	1-136-165-00	FILM	0.1MF	5%	50V	C901	1-101-810-00	CERAMIC	100PF	5%	500V
522	1-107-925-11	ELECT	1MF	20%	100V	C904	1-126-933-11	ELECT	100MF	20%	16V
23	1-104-666-11	ELECT	220MF	20%	25V	C905	1-126-964-11	ELECT	10MF	20%	50V
24	1-136-165-00	FILM	0.1MF	5%	50V	C906	1-126-964-11	ELECT	10MF	20%	50V
25	1-126-967-11	ELECT	47MF	20%	50V	C907	1-126-964-11	ELECT	10MF	20%	50V
526	1-104-666-11	ELECT	220MF	20%	25V	C908	1-126-964-11	ELECT	10MF	20%	50V
28	1-126-964-11	ELECT	10MF	20%	50V	C910	1-535-465-11	LEAD, JUMPER	(5.0MM)		
29	1-111-097-11	ELECT	0.0022F	20%	35V	C911	1-126-964-11	ELECT	10MF	20%	50V
30	1-111-097-11	ELECT	0.0022F	20%	35V	C913	1-101-810-00	CERAMIC	100MF	5%	500V
31	1-126-965-11	ELECT	22MF	20%	50V	C916	1-162-318-11	CERAMIC	0.001MF	10%	500V
532	1-104-666-11	ELECT	220MF	20%	25V	C1200	1-136-165-00	FILM	0.1MF	5%	50V
633 △	1-107-563-11	FILM	0.1MF	20%	300V	C1201	1-137-194-81	FILM	0.47MF	5%	50V
	1-107-563-11	FILM	0.1MF	20%	300V	C1201	1-137-194-81	FILM	0.47MF	5%	50V
	1-113-890-51	CERAMIC	0.0022MF	20%	250V	C1203	1-136-169-00	FILM	0.22MF	5%	50V
538	1-136-203-11	FILM	0.0022MF	10%	250V	C1203	1-136-169-00	FILM	0.22MF	5%	50V
540	1-136-203-11	MYLAR	0.01MF	10%	100V	C1204 C1207	1-136-169-00	ELECT	100MF	20%	16V
40	1 100-220-00	THAN	J. IMF	100	1004	C1207	T TTO-333-11	enect	TOOPIE	200	101
	1-161-744-00		0.01MF		400V	C1208	1-126-963-11		4.7MF	20%	50V
644	1-137-043-11		0.0047MF	10%	400V	C1209	1-126-963-11		4.7MF	20%	50V
547	1-162-116-00	CERAMIC	680PF	10%	2KV	C1210	1-126-941-11		470MF	20%	25V
551	1-102-228-00	CERAMIC	470PF	10%	500V	C1212	1-162-318-11	CERAMIC	0.001MF	10%	500V
00	1-137-368-11	FILM	0.0047MF	5%	50V	C1213	1-162-318-11	CERAMIC	0.001MF	10%	500V
301	1-137-372-11	FILM	0.022MF	5%	50V	C1214	1-126-933-11	ELECT	100MF	20%	16V
302		LEAD, JUMPER				C1215	1-136-173-00		0.47MF	5%	50V
804	1-136-497-81		0.01MF	5%	50V	C1216	1-130-495-00		0.1MF	5%	50V
805	1-136-207-11		0.047MF	10%	250V	C1217	1-130-495-00		0.1MF	5%	50V
306	1-104-999-11		0.047FE	10%	200V	C1217	1-126-941-11		470MF	20%	25V
••	1 104 333 11	MILIMIN	V. IME	100	EVV1	C1210	1 120 941 11	20001	- I VELE	£ V 0	234
07	1-136-540-11		0.82MF	5%	200V	C1223	1-102-129-00	CERAMIC	0.01MF	10%	50V
308	1-136-946-11	FILM	0.12MF	5%	200V						
310	1-107-683-11	ELECT	2.2MF	0	250V		< CON	NECTOR >			
811	1-102-212-00	CERAMIC	820PF	10%	500V						
312	1-136-540-11	FILM	0.82MF	5%	200V		↑ 1-508-786-00		*		
	1 100 0=0 11		0 000=	••	1 4***		↑ 1-508-765-00			сн) ЗР	
314	1-136-952-11		0.02MF	3%	1.4KV		<u>*1-580-844-11</u>	•			
15	1-137-046-11	FILM	0.0082MF	10%	400V	CN611	1-900-901-05	PIN, LEAD, C	OATING		



REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	N	REMARK
CN612	1-900-901-05	PIN, LEAD, COATING		D620	8-719-991-33	DIODE 1SS133T-	-77	
CN800	*1-580-798-11	CONNECTOR PIN (DY) 6P		D622	8-719-923-60	DIODE MTZJ-T-	77-9.1A	
CN801	*1-568-879-11	PIN, CONNECTOR 4P		D625	8-719-991-33	DIODE 1SS133T-	-77	
CN802		PIN, CONNECTOR (5MM PITC	CH) 1P	D626		DIODE AU-01Z-V		
CN803		TAB (CONTACT)	,	D631		DIODE RD6.2ESE		
		, ,						
		PIN, CONNECTOR 6P		D637		DIODE RD10ESB2		
CN901		PIN, CONNECTOR 6P		D800		DIODE 1SS133T-		
CN902	1-695-299-11	CONNECTOR, BOARD TO BOAR	RD 50P	D801		DIODE 1SS133T-	-77	
CN903	*1-568-880-51	PIN, CONNECTOR 5P		D803	8-719-908-03	DIODE GP08D		
CN904	*1-568-879-11	PIN, CONNECTOR 4P		D807	8-719-302-43	DIODE EL1Z		
CN905	*1-568-878-51	PIN, CONNECTOR 3P		D808	8-719-908-03	חווחה מפחפת		
CN906		PIN, CONNECTOR 5P		D809		DIODE RGP02-20)EC33	
		PIN, CONNECTOR 5P		D810	8-719-302-43		JEG25	
		·					T 007 102	
		PLUG, CONNECTOR 8P		D812		DIODE FMV-3FU-	-TL05/-103	
CN1408	*1-568-879-11	PIN, CONNECTOR 4P		D815	8-719-908-03	DIODE GP08D		
CN1803	*1-568-878-61	PIN, CONNECTOR 3P		D817	8-719-109-85	DIODE RD5.1ESE	32	
				D902	8-719-923-60	DIODE MTZJ-T-	77-9.1A	
	< DIO	DE >		D903	8-719-923-60	DIODE MTZJ-T-	77-9.1A	
				D904	8-719-923-60	DIODE MTZJ-T-	77-9.1A	
D500	8-719-109-85	DIODE RD5.1ESB2		D905		DIODE MTZJ-T-		
D502	8-719-979-85			2300	0 /15 515 00	21021 11110 1		
D503	8-719-979-85			D906	8-710-023-60	DIODE MTZJ-T-	77-0 1a	
D504		DIODE 1SS133T-77		D907		DIODE RD5.6ESI		
		DIODE MTZJ-3.6A		D910		DIODE MTZJ-T-		
D505	0-719-902-03	DIODE MIZO-3.0A						
DE0.0	0 710 001 00	DTODE 100100m 77		D920		DIODE RD5.6ESE		
D506		DIODE 1SS133T-77		D1201	8-719-109-72	DIODE RD3.9ES-	-B2	
D507		DIODE RD5.1ESB2						
D510		DIODE MTZJ-T-77-22B		D1202	1-535-465-11	LEAD, JUMPER	(5.0MM)	
D570		DIODE MTZJ-T-77-22B						
D571	8-719-924-13	DIODE MTZJ-T-77-22B			< FUS	E >		
D600	8-719-510-53	DIODE D4SB60L		F601 /	1-576-232-21	FUSE (H.B.C.)	5A/250V	
D601	8-719-046-77				×1-533-725-11			
D603		DIODE RD6.8ES-B2			2 1 555 725 11	1025211, 1002	(1001)	
D604		DIODE EU-1-V1			/ FFD	RITE BEAD >		
D605	8-719-302-43				\ ren	KIIE DEAD /		
טטט	0-115-302-43	DIONE ENTE		FB600	1-410-397-21	FERRITE	1.1UH	
D606	8-719-302-43	DIODE EL1Z		FB601	1-410-397-21		1.1UH	
D607		DIODE EG-1Z-V1		FB602	1-410-397-21		1.1UH	
D608	8-719-302-06			FB604	1-410-396-41		0.45UH	
D609		DIODE RU4AM-T3		FB605	1-410-396-41		0.45UH	
D610		DIODE AU-01Z-V1		1000	1 410-330-41	LERKITE	V. 7JUN	
DOIO	0-719-040-74	DIODE RO-012-VI		FB606	1-410-397-21	FERRITE	1.1UH	
D611	8-719-058-38	DIODE FMN-G12S		FB607	1-410-397-21		1.1UH	
D612		DIODE RU3YX-LF-C4		FB608	1-410-396-41		0.45UH	
D613		DIODE FMN-G12S		FB801	1-410-396-41		0.45UH	
D614		DIODE FMN-G12S		FB901			1.1UH	
				LEANT	1-410-397-31	INDUCTOR	I.IUH	
D615	8-119-046-75	DIODE EU-1-V1		FB902	1-410-397-31	INDUCTOR	1.1UH	
D616	8-719-110-03	DIODE RD7.5ESB2						
D617		DIODE 1SS133T-77			< IC	>		
D618		DIODE 1SS133T-77			\ 1 C	•		
D618		DIODE 1SS133T-77		IC500	8-759-192-71	TC CM3/0270		
בדסת	0-113-331-33	1991331-		10300	0-139-192-11	10 91/39/3		



REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	NC	F	REMARK	
IC600	8-749-010-92	IC STR-S6709		Q604	8-729-024-35	TRANSISTOR 2	SC2808STP-R			
	8-749-013-21	IC TLP721 (D4-G,T)		Q605	8-729-119-78	TRANSISTOR 2	SC2785-HFE			
IC602	8-749-920-61			Q606	8-729-900-65	TRANSISTOR D	TA144ES			
IC603	8-759-144-82	IC UPC2405HF		Q607	8-729-119-78	TRANSISTOR 2	SC2785-HFE			
IC604	8-759-510-52	IC L4941BV		Q801		TRANSISTOR II				
IC606	8-759-267-25	IC LM2940CT-9.0		Q802	8-729-042-86	TRANSISTOR 2	SC5251-01			
IC800	8-759-103-93	IC UPC393C		Q803	8-729-119-80	TRANSISTOR 2	SC2688-LK			
IC1200	8-759-250-68			Q805		TRANSISTOR D				
IC1201		IC TDA2822M		Q900		TRANSISTOR 2				
				Q1200	8-729-119-78	TRANSISTOR 2	SC785-HFE			
	< JAC	CK SOCKET >								
				Q1201	8-729-029-94	TRANSISTOR D	TC143TSA			
J1200	1-770-218-11	JACK, PIN		Q1202	8-729-029-66	TRANSISTOR D	rc114esa			
				Q1203	8-729-029-94	TRANSISTOR D	rc143TSA			
	< CO1	IT >		Q1204	8-729-029-94	TRANSISTOR D	TC143TSA			
L501		LEAD, JUMPER (5.0MM)			< RES	SISTOR >				
L502	1-412-519-11									
L503	1-412-519-11	INDUCTOR 3.3UH		R500	1-215-457-00	METAL	33K 1%	1/4W		
L609	1-412-533-21			R502	1-249-421-11	CARBON	2.2K 5%	1/4W		
L610	1-535-465-11	LEAD, JUMPER (5.0MM)		R503	1-249-429-11		10K 5%	1/4W		
				R504	1-215-441-00	METAL	6.8K 1%	1/4W		
L611	1-412-527-11			R505	1-249-382-11	CARBON	1.2 5%	1/4W	F	
L612	1-412-522-41									
L613	1-412-522-41	INDUCTOR 5.6UH		R506	1-215-455-00	METAL	27K 1%	1/4W		
L616	1-412-533-21	INDUCTOR 47UH		R507	1-215-888-00	METAL OXIDE	220 5%	2W		
L801	1-459-111-00	INDUCTOR OUH		R508	1-216-371-00		1.5 5%	2W		
				R509	1-249-443-11	CARBON	0.47 5%	1/4W		
L802		COIL, WITH CORE		R510	1-249-443-11	CARBON	0.47 5%	1/4W	F	
L803		LEAD, JUMPER (5.0MM)								
L805	1-406-674-11			R519	1-215-451-00		18K 1%	1/4W		
L806		LEAD, JUMPER (5.0MM)		R520	1-215-451-00		18K 1%	1/4W		
L809	1-408-611-31	INDUCTOR 47UH		R521	1-215-457-00		33K 1%	1/4W		
				R522	1-247-863-91		22K 5%	1/4W		
L810		LEAD, JUMPER (5.0MM)		R523	1-247-863-91	CARBON	22K 5%	1/4W		
L811	1-406-978-11									
L813	1-412-552-11	INDUCTOR 2.2MMH		R524	1-249-425-11		4.7K 5%	1/4W		
				R525	1-249-425-11		4.7K 5%	1/4W		
	< IC	LINK >		R526	1-249-421-11		2.2K 5%	1/4W		
				R527	1-215-433-00		3.3K 1%	1/4W	_	
		LINK, IC 2.7A (ICP-F75)		R600 △	1-216-490-11	METAL OXIDE	39K 5%	3W	F	
		LINK, IC 2.7A (ICP-F75)					4	4 / 4		
		LINK, IC 2.7A (ICP-F75)		R601	1-249-417-11		1K 5%	1/4W		
PS603 △	1-532-686-21	LINK, IC 2.7A (ICP-F75)		R602	1-215-473-00		150K 1%	1/4W	_	
				R603	1-215-898-11		10K 5%	2W	F	
	< TRA	ANSISTOR >		R604	1-249-420-11		1.8K 5%	1/4W	_	
Q501	8-720-110-70	TRANSISTOR 2SC2785-HFE		R605	1-216-362-11	METAL OXIDE	0.27 5%	2W	F	
Q501 Q502		TRANSISTOR 2SA1175-HFE		R606	1-535-143-01	LEAD, JUMPER	(12 5MM)			
Q502 Q503		TRANSISTOR DTC144ESA		R607		METAL OXIDE		1W	F	
Q503 Q601		TRANSISTOR DICITALSA TRANSISTOR 2SC3852A		R608		METAL OXIDE			F	
Q602		TRANSISTOR 2SA1667		R609		LEAD, JUMPER		411	Ľ	
2002	U-123-32U-20	INDUSTRICK ZOMIOU/		R610	1-215-427-00	·	1.8K 1%	1/4W		
Q603	8-729-805-05	TRANSISTOR 2SC3601-E		VOIO	1-213-421-00	METAL	1.UN 16	1/4W		
				R611	1-216-354-11	METAL OXIDE	2.7 5%	1₩	F	



REF. NO	. PART.NO	DESCRIPTION	ON		F	REMARK	REF. NO.	PART.NO	DESCRIPTION	ON		F	REMARK
R612	1-249-428-11	CARBON	8.2K	5%	1/4W		R821	1-215-909-11	METAL OXIDE	47	5%	3W	F
R613	1-249-417-11	CARBON	1K	5%	1/4W		R822	1-215-868-00	METAL OXIDE	680	5%	1W	F
R614	1-215-877-11	METAL OXIDE	22K	5%	1W	F	R823	1-216-456-21	METAL OXIDE	820	5%	2W	F
R615	1-249-435-11	CARBON	33K	5%	1/4W		R824	1-249-420-11		1.8K		1/4W	
R616	1-215-471-00		120K		1/4W		R825	1-215-884-11		47	5%	2W	F
R617	1-215-901-00	METAL OXIDE	33K	5%	2W	F	R826	1-247-752-11	CARBON	1K	5%	1/2W	
R618	1-247-863-91		22K	5%	1/4W	•	R827	1-249-425-11		4.7K		1/4W	
R619	1-216-425-11		56	5%	1W	F	R828	1-249-432-11		18K	5% 5%	1/4W	
R620	1-260-131-11		470K		1/2W	•	R829	1-260-120-11		56K	5% 5%	1/2W	
R621	1-216-425-11		56	5% 5%		F	R830	1-217-778-11		1K	5%		F
DC22	1 240 427 11	CARRON	ערג	E 0.	1/4W		D021	1 525 465 11	TEAD TUMBED	/E 014	r\		
R622	1-249-437-11		47K	5% = 0			R831		LEAD, JUMPER			1 / / 127	
R623	1-249-429-11		10K	5% = 0.	1/4W		R833	1-249-441-11		100K		1/4W	
R624	1-249-393-11		10	5% 5°	1/4W	r	R835	1-215-907-51		22	5% •••	3W	r
R625	1-249-434-11		27K	5% =°	1/4W		R836	1-249-439-11		68K	5% = 0	1/4W	
R626	1-249-430-11	CARBON	12K	5%	1/4W		R837	1-249-436-11	CARBON	39K	5%	1/4W	
R627	1-216-347-11		0.68	5%	1W		R840	1-247-807-31		100	5%	1/4W	
R628	1-249-415-11	CARBON	680	5%	1/4W	F	R841	1-249-418-11	CARBON	1.2K	5%	1/4W	
	△ 1-260-135-11	CARBON	1M	5%	1/2W		R844	1-535-143-11	LEAD, JUMPER	(10.0M	M)		
R630	△ 1-218-265-11	METAL	8.2M	5%	1W		R846	1-249-440-11	CARBON	82K	5%	1/4W	
R631	△ 1-202-961-11	CEMENTED	1.8	5%	10W		R847	1-259-880-11	CARBON	2.2M	5%	1/4W	
R632	1-247-807-31	CARBON	100	5%	1/4W		R848	1-247-903-00	CARBON	1M	5%	1/4W	
R633	1-247-807-31		100	5%	1/4W		R851	1-215-898-11		10K	5%		F
R634	1-249-397-11	CARBON	22	5%	1/4W	F	R852	1-249-432-11	CARBON	18K	5%	1/4W	
R635	1-249-437-11		47K	5%	1/4W		R853	1-216-361-00		0.22	5%	2W	F
R636	1-249-417-11		1K	5 %	1/4W		R901	1-247-734-11		39	5%	1/2W	_
R637	1-247-815-91	CARRON	220	5%	1/4W		R902	1-247-734-11	CARRON	39	5%	1/2W	
R638	1-247-863-91		22K	5%	1/4W		R904	1-249-389-11		4.7	5% 5%	1/4W	r
R639	1-215-425-00		1.5K		1/4W		R907	1-247-804-11		75	5%	1/4W	-
	△ 1-202-961-11		1.8	5%	10W		R908	1-247-804-11		47	5%	1/4W	
R645	1-249-422-11		2.7K		1/4W		R909	1-249-401-11		10K	5%	1/4W	
DCAC	1 240 277 11	CARRON	0 47	E 0.	1 / 417	7	D000	1 047 007 31	CARRON	100	E 0.	1 / 417	
R646	1-249-377-11		0.47		1/4W		R922	1-247-807-31		100		1/4W	
R647	1-202-933-61		0.1		1/2W	r	R923	1-249-421-11		2.2K		1/4W	
R649	1-249-426-11		5.6K		1/4W		R925		LEAD, JUMPER			1 / 40-	
R800	1-249-429-11		10K	5% 5°	1/4W		R1200	1-249-425-11		4.7K		1/4W	
R802	1-249-429-11	CARBON	10K	5%	1/4W		R1201	1-249-434-11	CARBON	27K	5ቼ	1/4W	
R803	1-249-427-11		6.8K		1/4W		R1202	1-249-389-11		4.7		1/4W	F
R805	1-249-429-11			5%	1/4W		R1203	1-249-421-11	CARBON	2.2K	5%	1/4W	
R809	1-247-897-11	CARBON	560K	5%	1/4W		R1204	1-249-421-11	CARBON	2.2K		1/4W	
R812	1-249-421-11	CARBON	2.2K	5%	1/4W		R1205	1-249-428-11	CARBON	8.2K	5%	1/4W	
R813	1-215-869-11	METAL OXIDE	1K	5%	1W	F	R1206	1-249-428-11	CARBON	8.2K	5%	1/4W	
R814	1-249-381-91	CARBON	1	5%	1/4W	F	R1207	1-249-413-11	CARBON	470	5%	1/4W	
R815	1-249-381-91		1	5%	1/4W	F	R1208	1-212-849-00		4.7	5%	1/4W	F
R816	1-216-456-21		820	5 %	2W	F	R1209	1-212-849-00		4.7	5%	1/4W	
R817	1-216-456-21		820	5%	2W	F	R1210	1-249-413-11		470	5% 5%	1/4W	
R818	1-215-884-11		47	5 %	2W	F	R1211	1-249-424-11		3.9K		1/4W	
R819	1_525_1/2_71	משמעוד. קעקו	/7 EM	۷)			R1212	1_2/0_/2/_11	CADBOM	3 02	5 9	1/4W	
		LEAD, JUMPER			1 / 412			1-249-424-11		3.9K			
R820	1-249-403-11	CAKBON	68	5%	1/4W		R1213	1-249-421-11	CAKRON	2.2K	38	1/4W	



							<u> </u>	
REF. NO. PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRI	PTION		REMARK
R1216 1-249-413-1	-11 CARBON 470	5% 1/4W	C1723	1-161-830-00	CERAMIC	0.0047MF		500V
R1217 1-249-425-1	-11 CARBON 4.7K	5% 1/4W	C1725	1-128-551-11	ELECT	22MF	20%	25V
	11 LEAD, JUMPER (5.0MM	•	C1726	1-126-934-11	ELECT	220MF	20%	16V
R1219 1-249-417-1	, ,		C1801	1-104-664-11		47MF	20%	25V
		-,	C1803	1-137-368-11		0.0047MF	5%	50V
< F	RELAY >		02000			V. VV. 7.1.1	•	
` •			C1804	1-126-964-11	ELECT	10MF	20%	50V
RY600 A 1-755-018-1	-11 RELAY		C1805			0.0022MF	5 %	50V
1000 25 1 755 010 1	II NUMI		01003	1 137 300 11	LIM	0.0022H	30	301
< \$	SWITCH >			< CO1	NNECTOR >			
3601	21 SWITCH, PUSH (AC PO	NER)	CN1015	*1-568-880-51	PIN, CONNE	CTOR 5P		
	21 SWITCH, LEVER	,		*1-770-723-11			ARD 8P	
	,			1-568-878-51				
< 9	SPARK GAP >			*1-568-878-51				
	· · · · · · · · · · · · · · · · · · ·			*1-568-878-51				
SG801 1-519-422-1	11 GAP, SPARK				,			
	11 GAP, SPARK			< DIC	ODE >			
/ п	TRANSFORMER >		D1701	8-719-991-33	חוחה 1991	33T-77		
\ 1	TRANSFORMER /		D1701	8-719-110-88				
TICOO A 1 421 402 1	11 MDANGEODNED IINE E	TI MED	D1702					
	11 TRANSFORMER, LINE F							
ır.601 <u>№</u> 1-431-402-1	11 TRANSFORMER, LINE F	ILTEK	D1801	8-719-929-15	DIODE HZS9	. INBZ		
1601 A 1-431-170-1	11 TRANSFORMER, CONVER	TER		< IC	>			
r800 1-426-981-1	11 TRANSFORMER, FERRIT	E (PMT)						
¹803	11 FBT ASSY, NX-4511/U	2B4	IC1801	8-759-701-59	IC NJM7809	FA		
r804 1-437-090-3	·31 HDT		IC1802	8-759-603-37	IC M5216P			
r805 1-429-306-1	11 TRANSFORMER, HORIZO	NTAL LINEAR						
٠ ٦	THERMISTOR >			< CO	IL >			
``	Indicatorox >		L1701	1-408-603-31	INDUCTOR	10UH		
HP600 △ 1-809-827-1	11 THERMISTOR, POSITIV	3	L1702	1-408-597-31	INDUCTOR	3.3UH		
	,		L1703	1-408-603-31		10UH		
******	******	******		1-408-612-31		56UH		
			L1705	1-408-612-31		56UH		
*A-1644-082-	-A VM BOARD, COMPLETE							
	*******			< IC	LINK >			
< 0	CAPACITOR >		PS1801 Z	△ 1-532-605-11	LINK, IC 0	.4A (ICP-F10	0)	
1701 1-126-933-1	-11 ELECT 100ME	20% 16V		< ग Ω!	ANSTSTOR >			
				\ 1IV				
			01701	0_720_110_70	πDλΝcτcπ∧n	2002705_8		
			_					
.1-105 1-107-038-1	TI ELECT 35MF	704 IBUV	Q1/03				7031	
1706 1_104 000 1	. מער א מדדע 11.	5 9 20017	01704				103)	
			Q1/04	0-123-113-18	TRANSISTOR	23C2/83-HFE		
				0 700 017 11	MB 1110	0004500		
			Q1706					
							706)	
1-102-074-0	0.001M	F 10% 50V	Q1708	8-729-119-78				
			Q1709	8-729-119-78	TRANSISTOR	2SC2785-HFE		
1-107-667-1		20% 160V						
1-126-934-1	11 ELECT 220MF	20% 16V						
C1701 1-126-933-1 C1702 1-128-551-1 C1703 1-126-933-1 C1704 1-107-357-1 C1705 1-107-638-1 C1706 1-104-999-1 C1707 1-137-397-1 C1708 1-137-364-1 C1709 1-137-364-1 C1710 1-102-074-0 C1720 1-107-667-1 C1721 1-137-397-1	**************************************	F 5% 50V F 5% 50V F 10% 50V 20% 160V F 5% 100V	Q1701 Q1702 Q1703 Q1704 Q1706	** 1-532-605-11 < TRA 8-729-119-78 8-729-017-05 *4-368-683-21 8-729-017-06 *4-368-683-21 8-729-119-78	LINK, IC 0 ANSISTOR > TRANSISTOR TRANSISTOR TRANSISTOR SPRING, TR TRANSISTOR TRANSISTOR SPRING, TR TRANSISTOR	2SC2785-HFE 2SC2785-HFE 2SA1837 ANSISTOR (Q17 2SC2785-HFE 2SC4793 ANSISTOR (Q17 2SC2785-HFE	703)	

VM		H1		H2
REF. NO.	_ Pa	RT.NO	[DESCRIPTION

REF. NO.	O. PART.NO DESCRIPTION		REMARK			REF. NO.	PART.NO	DESCRIP	PTION		REMARK		
	< RES	SISTOR >					CN956	*1-568-880-51	PIN, CONNE	CTOR 5P			
1701	1-249-417-11	CARBON	1K	5%	1/4W			< JAC	CK SOCKET >				
1702	1-249-417-11	CARBON	1K	5%	1/4W								
1703	1-249-421-11	CARBON	2.2K	5%	1/4W		Ј900	1-764-606-11	JACK				
1704	1-249-415-11	CARBON	680	5%	1/4W								
1705	1-247-815-91		220	5%	1/4W			< COI	T >				
1706	1-247-815-91	CARBON	220	5%	1/4W		L901	1-414-183-41	INDUCTOR	10UH			
1708	1-249-412-11	CARBON	390	5%	1/4W		L902	1-414-183-41	INDUCTOR	10UH			
1712	1-260-311-11		39	5%	1/2W		L903	1-414-183-41	INDUCTOR	10UH			
1713	1-249-384-11	CARBON	1.8	5%	1/4W	F	L904	1-414-183-41	INDUCTOR	10UH			
1714	1-249-414-11		560	5%	1/4W								
								< RES	SISTOR >				
1715	1-249-432-11		18K	5 %	1/4W	_							
1716	1-249-417-11		1K	5%	1/4W		R905	1-247-804-11			% 1/4₩		
1717	1-216-476-11		180	5%	3W	F	R906	1-247-804-11		75 5			
1718	1-249-432-11		18K	5%	1/4W		R910	1-249-422-11		2.7K 5			
1719	1-249-384-11	CARBON	1.8	5%	1/4W	F	R911	1-249-426-11		5.6K 5	-		
							R912	1-249-429-11	CARBON	10K 5	% 1/4₩		
1720	1-249-400-11		39	5%	1/4W	F							
1721	1-249-414-11		560	5%	1/4W		R913	1-247-863-91		22K 5			
1722	1-249-401-11		47	5%	1/4W		R914	1-249-437-11		47K 5	% 1/4₩		
1724	1-249-400-11		39	5%	1/4W		R915	1-535-465-11	•				
1725	1-216-451-11	METAL OXIDE	120	5%	2W	F	R919	1-249-437-11		47K 5			
							R921	1-249-437-11	CARBON	47K 5	% 1/4₩		
L728	1-249-413-11		470	5%	1/4W								
1729	1-249-413-11	CARBON	470	5%	1/4W		R922	1-247-807-31	CARBON	100 5	% 1/4₩		
1730	1-249-422-11	CARBON	2.7K	5%	1/4W								
1731	1-249-411-11	CARBON	330	5%	1/4W			< SWI	TCH >				
1806	1-247-883-00	CARBON	150K	5%	1/4W								
							S900	1-692-979-21					
1807	1-249-429-11		10K	5%	1/4W		S901	1-692-979-21					
1808	1-249-429-11		10K	5%	1/4W		S902	1-692-979-21	SWITCH, TAG	CTILE			
1809	1-249-429-11		10K	5%	1/4W								
1810	1-249-429-11	CARBON	10K	5%	1/4W		*****	******	******	******	*****	******	
*****	*******			****	*****	******	***	*A-1646-159-A	H2 BOARD, (
*A-1646-158-A H1 BOARD, COMPLETE **********************************						< CAF	PACITOR >						
	∠ CN1	PACITOR >					C900	1-136-166-00	RTT.M	0.12MF	5%	50V	
	∨ CAI						C904	1-136-166-00		10MF	ა 20%	50V	
902	1-137-372-11	FTT.M	0.022M	T.	5%	50V	C904	1-126-933-11		10MF	20% 20%	16V	
902	1-137-372-11		0.022M		5% 5%	50V 50V	C905	1-126-933-11		0.01MF	200	50V	
903 907	1-137-372-11		10MF	ı£	20%	50V 50V	5314	T TOT-004-00	CENTRILL	O. OIME		301	
90 <i>1</i> 911	1-126-964-11		10MF		20% 20%	50V 50V		/ COX	INECTOR >				
911 916	1-126-964-11		0.0022	MF	20% 10%	400V		< CON	INECIUR >				
910	1-13/-040-11	LITM	0.0022	Mr	106	4000	CN971	*1-568-881-51	PIN, CONNEC	CTOR 6P			
	< CON	INECTOR >						< DIC	DDE >				
								, 520					
	1-779-947-21		•				l l						
	1-779-947-21 *1-568-880-51		•				D901	8-719-302-47	DIODE SEL1	210S-CD			
N900 N953 N954		PIN, CONNECT	OR 5P				D901	8-719-302-47 *4-203-258-11					



REF. NO.	PART.NO	DESCRIPTION REMARK		REF. NO.	PART.NO	DESCRIPTION			REMARK				
< IC >						< TRANSISTOR >							
IC900 IC901	8-742-014-11 8-749-012-12		981-51			Q260 Q261	8-729-029-94 8-729-119-78	TRANSISTOR TRANSISTOR					
	< RES		< RES	SISTOR >									
R900	1-247-815-91	CARBON	220 5%	1/4W		R260	1-535-465-11	LEAD, JUMPE	ER (5.0MM)			
R904	1-249-389-11	CARBON	4.7 5%	1/4W	F	R261	1-249-413-11	CARBON	470	5%	1/4W		
R908	1-249-401-11	CARBON	47 5%	1/4W		R262	1-249-421-11	CARBON	2.2K	5%	1/4W		
R924	1-259-884-11	CARBON	4.7M 5%	1/4W		R263	1-249-434-11	CARBON	27K	5%	1/4W		
R925	1-247-807-31	CARBON	100 5%	1/4W		R264	1-249-425-11	CARBON	4.7K	5%	1/4W		
R926	1-259-884-11	CARBON	4.7M 5%	1/4W		R265	1-247-863-91	CARBON	22K	5%	1/4W		
						R266	1-249-424-11	CARBON	3.9K	5%	1/4W		
******	******	******	******	*****	******	R267	1-212-849-00	FUSIBLE	4.7	5%	1/4W	F	
						R268	1-212-849-00	FUSIBLE	4.7	5%	1/4W	F	
	*A-1649-018-A K1 BOARD, COMPLETE ***********************************						******	******	******	****	*****	*****	*****
	< CAF	PACITOR >					*A-1651-088-A	J BOARD, CO					
C261	1-136-173-00	FILM	0.47MF	5%	50V								
C262	1-136-165-00		0.1MF	5%	50V		< CAE	PACITOR >					
C263	1-136-173-00	FILM	0.47MF	5%	50V								
C264	1-136-173-00	FILM	0.47MF	5%	50V	C289	1-101-004-00	CERAMIC	0.01MF			50V	
C265	1-137-366-11	FILM	0.0022MF	5%	50V	C290	1-101-003-00	CERAMIC	0.0047			50V	
						C291	1-101-005-00	CERAMIC	0.022M	F		50V	
C266	1-137-366-11	FILM	0.0022MF	5%	50V	C293	1-101-003-00	CERAMIC	0.0047	MF		50V	
C267	1-136-169-00	FILM	0.22MF	5%	50V	C294	1-101-005-00	CERAMIC	0.022M	F		50V	
C268	1-136-169-00	FILM	0.22MF	5%	50V								
C270	1-101-005-00	CERAMIC	0.022MF		50V	C296	1-101-003-00	CERAMIC	0.0047	MF		50V	
C271	1-126-952-11	ELECT	1000MF	20%	35V	C297	1-101-005-00	CERAMIC	0.022M	F		50V	
			4000-	•••		C299	1-101-004-00	CERAMIC	0.01MF			50V	
C272	1-126-952-11	ELECT	1000MF	20%	35V		< CON	INECTOR >					
	< CON	INECTOR >											
						CN1204							
	*1-568-879-11					CN1206							
CN1304	*1-568-879-11					CN1208		•					
CN1306	1-568-878-51						*1-564-519-11						
CN1307	*1-564-511-11	PLUG, CONNE	CTOR 8P			CN1211	*1-564-519-11	PLUG, CONNE	ECTOR 4P				
	< DIC	DDE >					< SOC	CKET >					
D260	8-719-109-72	DIODE RD3.91	ES-B2			J291	1-537-339-11						
	< IC	>				J292	1-537-339-11	LEKMINAL BO	JAKU				
T00.00	0 750 050 60	TO MD3-700/					< RES	SISTOR >					
IC260	8-759-250-68		/T00C0\			D000	1 040 400 41	as Draw	F /	E0	1 / /		
	4-202-373-01	•		CO \		R290							
	4-202-710-01	SPACER, INS	ULATING (IC2	bU)		R291							
						R292	1-249-426-11	CARBON	5.6K	5 %	1/4W		

The components identified by shading and marked Δ are critical for safety Replace only with the part number specified.

REF. NO.	PART.NO	DESCRIPTION	REMARK	REF. NO.	PART.NO	DESCRIPTION	REMARK				
		CELLANEOUS			ACCESSORIES AND PACKING MATERIALS ************************************						
Δ	1-416-452-11	COIL, DEMAGNETIC			1-765-654-11	CABLE SPEAKER					
	1-452-032-00	MAGNET, DISK; 10MM Ø			4-203-538-51	MANUAL, INSTRUCTION (KV-32WS2B)				
	1-452-094-00	MAGNET, ROTATABLE DIS	K; 15MM Ø				(FRENCH/DUTCH)				
	1-452-724-11	COIL NA ROTATION (RT-	165)		4-203-538-11	MANUAL, INSTRUCTION (F	KV-32WS2D)				
Δ	1-453-269-11	TRANSFORMER ASSY, FLY	BACK (NX-4511/U2B4)				(ENGLISH/GERMAN)				
	1-504-418-21	SPEAKER (5CM)			4-203-538-61	MANUAL, INSTRUCTION (F	KV-32WS2U) (ENGLISH)				
	1-505-154-11	SPEAKER (6.5CM)			*4-203-160-11	CUSHION (UPPER) (ASSY)					
	1-505-155-11	SPEAKER (10CM)			*4-203-163-11	CUSHION (LOWER) (ASSY)					
\triangle	1-251-528-21	CAP ASSY, HIGH-VOLTAG	E		*4-203-158-11	INDIVIDUAL CARTON					
Δ	1-571-433-21	SWITCH, PUSH (AC POWE	R)		*4-046-772-01	BAG, PROTECTION					
	1-693-340-11	TUNER/VIF (FR) (KV-3	2WS2B)		RE	MOTE COMMANDER					
	1-693-338-11	TUNER/VIF (AEP) (KV-3	2WS2D)		**	****					
	1-693-339-11	TUNER/VIF (UK) (KV-3	2WS2U)								
Δ	1-590-501-21	CORD, POWER (WITH NOI	SE FILTER)		1-473-692-11	COMMANDER, STANDARD TY	YPE (RM-862)				
		, ,	(KV-32WS2B/32WS2D)								
				******	*****	******	******				
Δ	1-776-204-11	CORD, POWER (FILTER)	(KV-32WS2U)								
		DEFLECTION YOKE Y32C2	A-M								
	8-453-011-11	NECK ASSY, (NA299-M)									
Δ	8-735-037-05	PICTURE TUBE (SD297) (W76LHT060X)								